

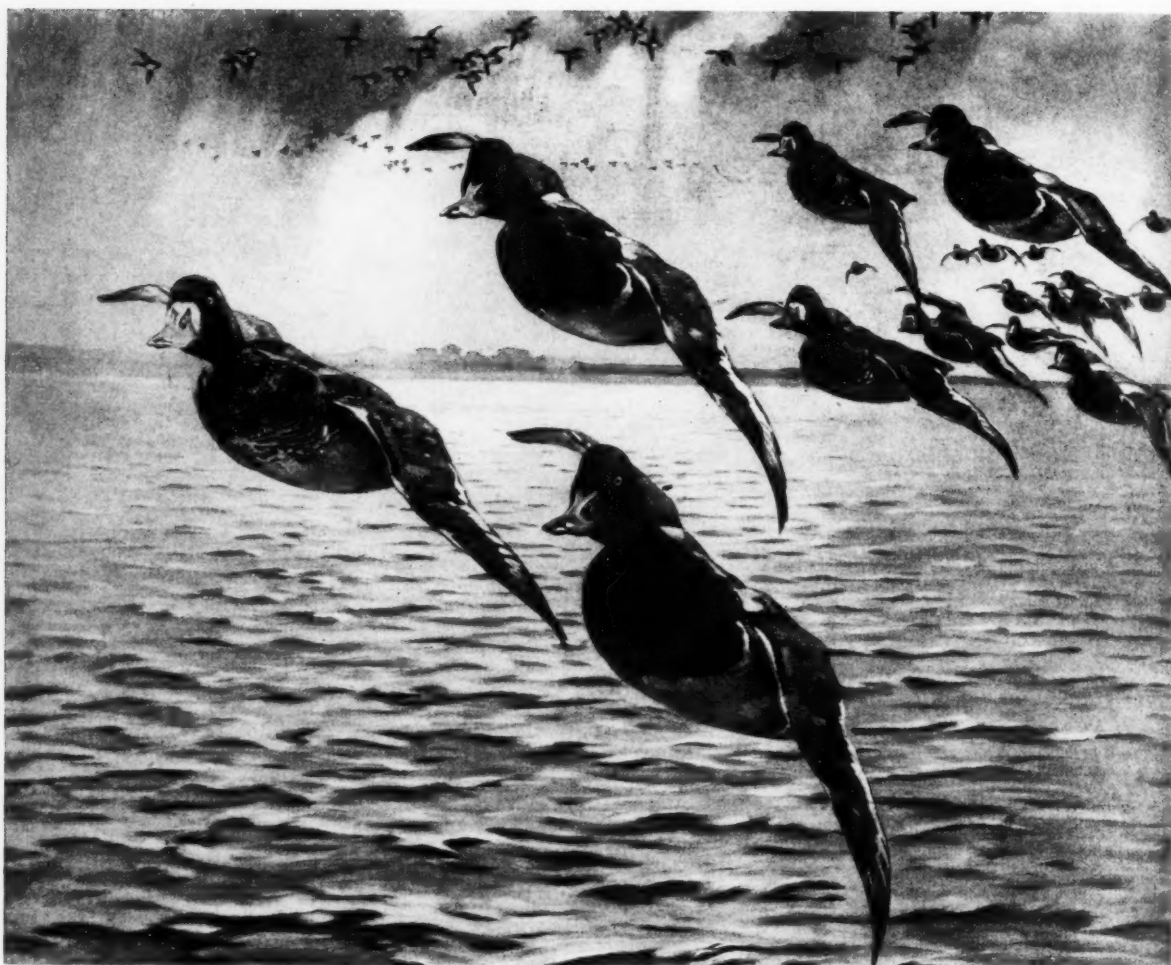
The
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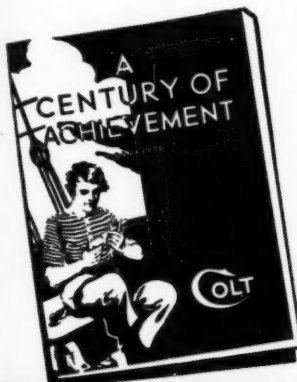
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NATIONAL RIFLE ASSOCIATION

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The AMERICAN RIFLEMAN

VOL. 85, No. 4

APRIL, 1937

N. R. A. SERVICE

LEGISLATIVE DIVISION: Looks after the interests of the shooters in Congress and State Legislatures, carries on the organized fight against unsound anti-gun laws, encourages legislation for the aid of civilian rifle practice and assists members to obtain permits to carry firearms to and from a range in states requiring such permits.

THE AMERICAN RIFLEMAN: This magazine is the official monthly publication of the N. R. A., and as such is "The Voice of the N. R. A." Non-political and non-sectarian in policy and free from commercial domination, it can and does speak freely, frankly and with authority on all shooting matters.

TECHNICAL DIVISION: Helps members with their personal shooting problems, reports in *THE AMERICAN RIFLEMAN* each month practical tests and critical examinations of new guns and equipment, and gives by personal letter advice on the selection of the right gun for a specific purpose, reloading, restocking, etc.

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MEMBERSHIP EXTENSION: Operates as a service division by furnishing members with sales literature and printed information so that they may explain to fellow sportsmen the value and benefits of N. R. A. membership and, moreover, because increased membership means an extension of N. R. A. service, it serves to benefit members in this way.

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POLICE DIVISION: Assists police departments in marksmanship training of their officers. Through the Association's far-flung contact and with the aid of experienced hands to carry on the work, this division is performing a public service which warrants the support of every good citizen.

PUBLICITY DIVISION: Endeavors to educate the American public through the public press to the fact that the man who likes to shoot is not a criminal and, although its services are intangible in character, it represents an important chain in the campaign "to make America, once again, a Nation of Riflemen."

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Courtesy of C. H. Murphy, Seward, Alaska. It depicts a scene in the Snow River district. The picture was produced by the Alaska Shop, of Seward.

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Published monthly by the National Rifle Association of America, Barr Building, Washington, D. C.—C. B. Lister, *Managing Editor*; L. J. Hathaway, *Editor*; F. C. Ness, F. L. Wyman, *Associate Editors*; F. A. Moulton, *Advertising Manager*. 25c per copy. By subscription \$3.00 a year in U. S. and Possessions, and throughout North and South America; two years \$5.00; foreign \$3.60 a year; two years \$6.50. Entered as second-class matter, April 1, 1908, at the Post Office at Washington, D. C., under Act of March 3, 1879. Thirty days' notice required for change of address. Copyright, 1937, by the National Rifle Association of America.

POWDER SMOKE

Another Forward Step

THE shooters of America seem to be extremely fortunate in the leadership they are enjoying from the group of men who now compose the National Board for the Promotion of Rifle Practice. During the past several years the present Board has consistently indicated an eagerness to function in such a manner that the civilian shooters would derive the maximum possible benefits from the annual Congressional appropriations for rifle promotion. Of course this is what they are supposed to do—but almost every Government bureau is an example of the rapidity with which a group of officials can lose their initiative and become merely a mechanical interpreter of the rules originally set down for the administration of their office. The very character of a Governmental agency makes this the easiest and most natural path for an official to follow, for his efficiency is ordinarily measured by the absence of complaints and mistakes in his record. Under these conditions any public official who begins to cast about for additional responsibilities which will call for additional labor on his own part is treading on extremely dangerous ground. This is equally true in the case of a group of officials who are called upon to serve in an official capacity on rare occasions during the year.

It is extremely gratifying, therefore, when we find that the members of the National Board for the Promotion of Rifle Practice realize the limitations of the regulations under which they function, and are ready and willing to go beyond their line of duty and to recommend to the Secretary of War that changes be made which will permit them to proceed along new lines in promoting the sport of marksmanship.

The progressive spirit of the National Board has been evidenced in the improvements which have marked the National Matches in the two years since their reinstatement. The Board has gone to extreme pains to ferret out the proper officers to conduct the Matches in the best and most efficient manner. It has been generally agreed by all Camp Perry veterans that the 1936 National Match staff was the best in history, and everyone welcomed the news that most of these same men would return to the same positions this year; and that, since Col. Jay Bene-

dict, Executive Officer of last year, will not be available this year, he will be succeeded by Col. F. C. Endicott, who is equally able and thoroughly familiar with the problems he will encounter in running the Matches.

Another example of this progressive spirit is contained in the most recent decision of the Board—a decision that may perhaps prove to have more far-reaching effects than any other change they have ever made in the conduct of the National Matches. They have recommended that changes be made to permit the use of Government funds to assist junior rifle clubs as well as senior groups.

Under the present regulations it is possible to issue arms and ammunition to only 1600 senior clubs. There is now a rather lengthy list of senior clubs waiting for a place among the select 1600, but most shooters do not realize that it is now impossible for junior clubs to receive Federal aid in their activities. It is not uncommon to find men who are willing to devote many hours of their time to instructing the boys and girls of their communities in the safe and proper method of handling firearms but are handicapped by a lack of funds with which to equip a range and keep the youngsters supplied with ammunition.

This picture would be altered under the new changes which would authorize the issue of .22-caliber rifles and ammunition to organized junior groups which were under competent supervision by qualified adult instructors. The details of the plan have not yet been completed, but the thing is certain to complicate the operation of the office of the Director of Civilian Marksmanship to a considerable extent.

Col. B. W. Mills and Maj. R. H. Lord should be especially commended for the manner in which they invited additional work when they endorsed this proposal to further encourage the practice of rifle marksmanship by the juniors of today who will be the senior sharpshooters of tomorrow. As long as the spirit shown by these men is retained by the members of the National Board we may expect to find the shooting game striding rapidly forward, until America really is—once again—a nation of riflemen.

The **AMERICAN RIFLEMAN**

APRIL, 1937

The .250 O'Neil Magnum

By **ELMER KEITH**

AS READERS of THE RIFLEMAN are as a rule interested in anything new in rifle cartridges, an accurate account of the development of a new 4000-foot-second .25-caliber cartridge may not be amiss.

Back in 1927 I endeavored to interest my friend James V. Howe in necking down the .300 Magnum case to .25 caliber, in an effort to develop a very fast, flat-shooting coyote cartridge, as I was then earning a considerable part of my living by hunting the "purps." Jim made up the dies and necked-down some cases, but never got around to making up the rifle; and I never knew how successful it might have been.

Early in 1936, Con Schmitt and Charles M. O'Neil set out to develop a .25-caliber rifle and cartridge which in velocity and accuracy would equal the German .244 Halger. They began with the .30-'06 case, which had already been necked down to .25 caliber in the so-called .25 Whelen cartridge. They changed the shoulder somewhat, and finally obtained a good cartridge:

accurate, and with far higher velocity than the .257 Roberts was capable of. However, it fell just short of the performance of the famous Halger .244. From the beginning Con and Charlie disagreed as to the case shoulder. Con firmly believing in a long, sloping shoulder, while Charlie was just as firm a believer in an abrupt or sharp shoulder.

They next decided to investigate the possibilities of the new-style .300 H. & H. Magnum case with long sloping shoulder, necked down to .25 caliber. Con favored the long shoulder, while Charlie

was dubious about it and rather favored the abrupt shoulder. However, he had always favored the long shoulder until he did considerable experimenting with the .250 Savage in comparison with a .257 Roberts with long sloping shoulder. He said that the .250 Savage still gave fine accuracy after 8000 rounds, while that .257 Roberts case with long shoulder soon washed out the throat of the barrel, and would not handle very light, short bullets as well as did the abrupt-shouldered .250 Savage case. At any rate, they made up the rifles and loading dies for the necked down .300 H. & H. case, and chambered for a really long sloping shoulder. The slope was so gentle, in fact, that the case was almost a straight-tapered funnel.

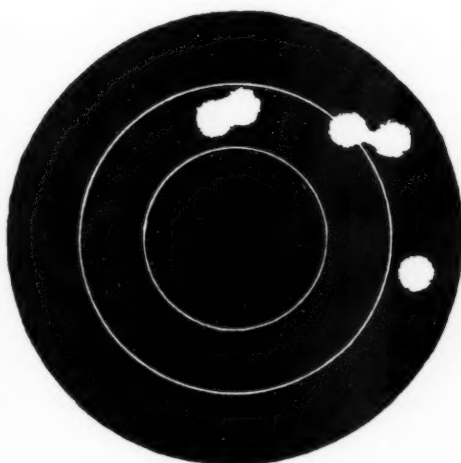
The first barrel in which they tested this cartridge had its throat washed out and its accuracy ruined after less than 200 rounds. The second rifle lasted for a little more than 200 rounds.

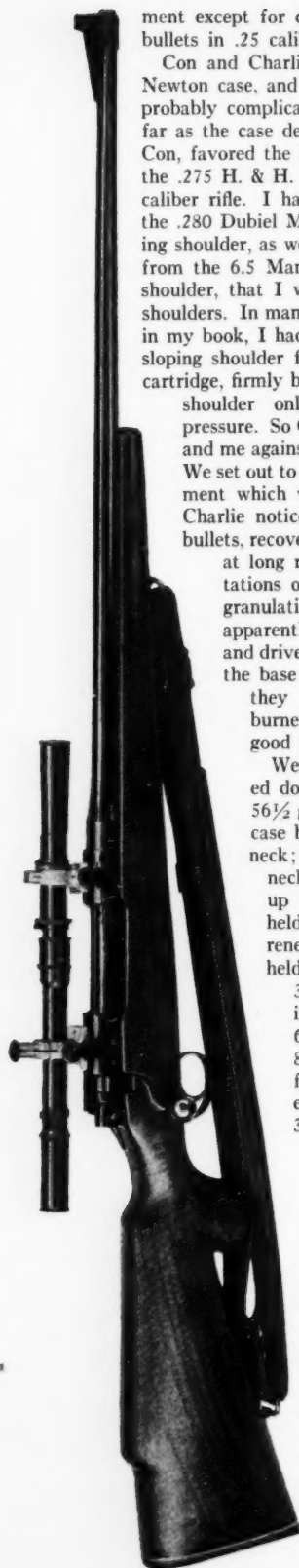
They tried all available powders: duPont 15½, 17½ and 1147. Both rifles did best with long heavy bullets of 100 or

117-grains weight, and seemed to give very uneven pressures and velocities with the light-weight bullets. The barrels heated quickly and were soon very hot, even with a ten-shot string. Ignition did not seem to be any too uniform, and both Con and Charlie decided that the case was too long for a .25-caliber cartridge, and that they would get better ignition and more uniform and even pressures with a shorter case.

So they proceeded to tool up again, and necked down the .30 Newton case to .25 caliber, using a slightly shorter shoulder. They also made up dies for the .275 H. & H. Magnum case, and necked this down to .25 caliber, though they did not make up any rifles for this case. At this time they invited me to join them in the experiments, which I was glad to do as I was very much interested in such a cartridge for coyotes. However, I had very little to do with the develop-

.250 O'Neil Magnum cartridge, and five-shot group at 200 yds. (All groups are reproduced exact size)





ment except for designing some really modern Spitzer bullets in .25 caliber, suitable for 4000-foot velocities.

Con and Charlie made up several rifles for the .30 Newton case, and sent me one of the first to shoot. I probably complicated matters as much as I helped, as far as the case development was concerned, for I, like Con, favored the long sloping shoulder. I also favored the .275 H. & H. case over the .30 Newton, for a .25-caliber rifle. I had always had such fine success with the .280 Dubiel Magnum with its long and gently sloping shoulder, as well as with the .22-4000 Schmitt made from the 6.5 Mannlicher case, with a medium sloping shoulder, that I was still a firm believer in long case

shoulders. In many of my articles, and in my book, I had advocated the long sloping shoulder for any high-velocity cartridge, firmly believing that a sharp shoulder only causes excessive pressure. So Charlie had both Con and me against him in this matter. We set out to find by actual experiment which was the better type. Charlie noticed that some of his bullets, recovered from a snowdrift at long range, showed indentations on the base made by granulations of powder, these apparently being funneled and driven up the bore against the base of the bullet before they were completely burned. This did not look good to him.

We found that the necked down .30-'06 case held $56\frac{1}{2}$ grains of powder, the case being filled up to the neck; the .300 H. & H. case

necked down held 66 grains of powder up to the neck; the .30 Newton case held $69\frac{1}{2}$ grains to the neck, while the renecked .275 H. & H. Magnum case held 61 grains. This with duPont No.

3031 powder. We tried every .25-caliber bullet on the market, from the 60-grain .25-20 up through the list of 87, 100, and 117-grain bullets made for .25-35, .250 Savage and .257 Roberts cartridges. We used Remington 30 Express rifles, rechambered and

The two Remington rifles restocked by O'Neil and chambered for the .30 Newton case necked down. These rifles were later fitted with 28-inch barrels for the .250 O'Neil Magnum

with 10-inch-twist standard-weight sporting barrels. Powder charges for the lighter-weight bullets went up as high as 69 grains. We had a great deal of trouble from uneven ignition and pressures, and tried all available primers, finally finding that the best for the purpose were Remington No. $9\frac{1}{2}$ and Winchester No. 120 nonmercuric non-corrosive primers. These primers gave more even ignition and pressure than any others tried. With the heavy loads we would often

shoot seven or eight shots of a ten-shot string with no trouble whatever, the bullets grouping from $1\frac{1}{2}$ to $3\frac{1}{2}$ inches at 200 yards; bench rest; then suddenly we would get a pierced primer and the case would stick so tight in the chamber that it had to be driven out from the muzzle with a cleaning rod.

Velocities were very much in excess of what those bullets were designed for, and the long heavy bullets all slugged more or less in the bore. In spite of this we got the best and most uniform results with the heavier bullets, and the finest accuracy with bullets of from 87 to 117 grains in weight. This big .30 Newton case simply would not handle the light 60 and 70-grain W. T. & C. and the commercial bullets, and would not group them worth anything. The W. T. & C. bullets with pure copper jackets seemed to slug badly, and the copper of the jacket appeared to have an affinity for steel; and we found that powder charges had to be cut down at least two grains for these bullets. We obtained some very good accuracy with the 100 and 117-grain Western bullets, the 117-grain boat-tail giving the best and most uniform performance of all the bullets I tried in the .30 Newton case.

We found the bores of the rifles badly tinned from the tin-content duPont powders, and as soon as possible we switched to 3031, and later to 4064, finding the latter the most suitable powder of all. Both 3031 and 4064 proved to be the

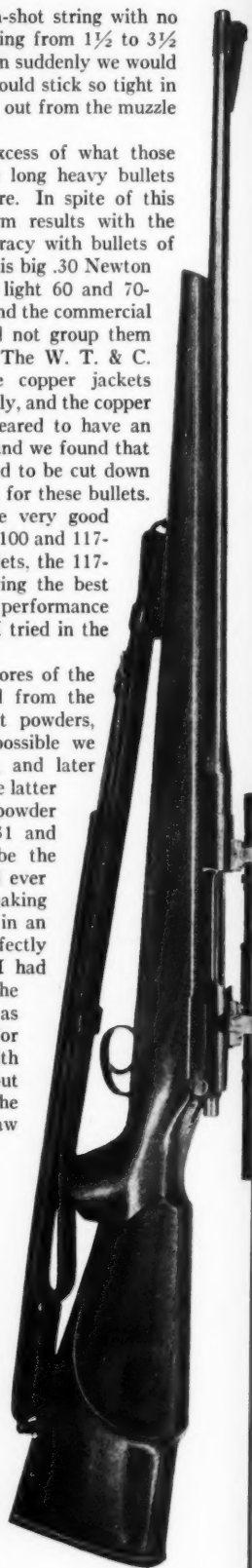
cleanest, finest rifle powders we had ever used. Charlie and I kept Con busy making dies, as we tried this and that load in an effort to find one that would give perfectly uniform results, shot after shot. I had settled upon 53 grains of 3031 with the 117-grain Western boat-tail bullet as the most uniform load I had shot. For a time I had very good accuracy with the 100-grain Western open-point, but one day one blew up or melted on the way to the target, as I distinctly saw



Ten-shot group at 200 yds., using 87-gr. W. T. & C. .257-cal. bullet and $59\frac{1}{2}$ grs. No. 4064. No fouling shots. .250 O'Neil Magnum

three separate dust spurts about half way to the target and widely separated.

Charlie and I about drove the cartridge companies to drink with our pleas for .25-caliber bullets with a new and harder jacket that would not slug in the bore, and of some metal not as "sticky" as pure copper seemed to be; also that had a real Spitzer point that would retain some of the initial velocity out at long range where the game was. We also wanted bullets with jackets



that were very thin at the point so that expansion would be positive even at extreme long range. However, although we received many courteous letters from the companies, who no doubt thought we were crazy, only Western Tool and Copper Works had an ear for our plea. So, while Charlie and Con continued to work on the case, I undertook to put over my ideas with the W. T. & C. people.

In spite of my best efforts at handloading, weighing all charges to one-tenth grain, full-length resizing cases, then neck-expanding them, I would get an occasional pierced primer and a case stuck tight in the chamber. Charlie and Con had the same experience. Furthermore, ten shots through my rifle would heat it up to such an extent that you could light a smoke on the barrel. Several times Charlie wrote me that he thought this was due to the long shoulder and the extremely large case, the powder being funneled into the bore and burning on its way up the barrel instead of in the cartridge case, thus causing the uneven pressures and velocities. Con and I still could not see it, although Charlie tried hard enough to put the idea over.

Velocities with this .30 Newton case were very high even in 24-inch barrels. Con made up a chronograph and had it checked and double-checked by the engineers of the University of Minnesota, and found that the 117-grain bullet developed 3220 foot-seconds velocity. The 100-grain bullet developed 3520 feet, while velocities with the 87-grain bullet of various makes went up to 3900 feet. Charlie found that by lubricating the 87-grain Remington .257 Roberts bullets with a very thin coating of Japan wax, velocities could be boosted still further, and the powder charge increased a grain.

O'Neil then decided to make some bullets that would not slug in the bore, while at the same time I was still corresponding with Mr. Martin of Western Tool and Copper, concerning the new bullets that they were bringing out to my specifications. Charlie had some special cutters made up, and turned out a small quantity of solid bronze bullets with the body just bore diameter and having two narrow driving bands to take the lands. They were boat-tail, and Spitzer open-point, the cavity in the point extending down fully half the length of the bullet. He found that velocities greatly increased with these solid bronze bullets, of 77 grains weight. They were very long, but it was not hard to get velocities up to 4300 feet with them. But Charlie had made the driving bands too narrow, and they would not always hold the lands, some of them stripping. Those bullets that did not strip cut into one hole at 100 yards, with scope and bench rest, all strays when dug out of the timber backing showing clearly that they had stripped in the rifling. Charlie shot

a dog at 60 yards, that had been crippled by a car. The bullet blew away the whole side of the dog *where it entered*, but the solid bronze base carried on through, of course killing like dynamite. A peculiar feature of this performance was that the dog looked as if he had been shot from the other side. The bullet made only a very small hole at exit. This, and experiments on jacks and porcupines, showed that the forward hollow-point section of the bullet disintegrated, while the base carried on through the animal.

I was all in favor of having more cutters made up and continuing the work on this bronze bullet by making the driving bands twice as wide, so that they would surely hold the rifling. And I still believe that the real answer to this 4000-foot-velocity business in any rifle lies in a solid bronze bullet with deep hollow point, as such a bullet with two bands will, if the bands are wide enough, hold the rifling perfectly and at the same time offer the very minimum of bore friction and throat wear. This type of bullet should give the most perfect accuracy and the highest possible velocities obtainable. Such bullets can be made very cheaply—certainly well within the present price range of regular expanding bullets, and I think will give far longer bore life than any other kind, as bronze has very little friction with, or affinity for, steel.



Ten-shot group at 100 yds., using Peters 87-gr. protected-point bullet and 54 grs. No. 4064. .250 O'Neil Magnum

By this time we had spent all spring and most of the summer experimenting with the .30 Newton case. I tried hard to get a shot at a bear with it, but only had my bear dog knocked silly for my trouble. I did try several different bullets on porcupines, and found that the 117-grain Western boat-tail tore a 4-inch hole at exit, and always went on through them, even endwise. The bronze bullet I tried but once on a quill pig at 100 yards, with results exactly the same as Charlie had obtained on his dog. Then I went up Pahsimeroi Valley to test the rifle on jacks at long range—and found that the throat of my barrel was completely gone!

The barrel let me down cold, though it had not been fired more than 250 shots. Charlie wrote me that they had gotten about 300 rounds accuracy life from each of the three barrels they had been using with this cartridge. The barrel I wore out tinned very badly—enough in twenty shots to affect accuracy, so I knew that I was all through with tin-content powders, and went to 3031 and 4064.

By this time we were all convinced that the .30 Newton was not the ideal case for our proposed rifle. We are also unanimously in favor of the belted .275 H. & H. case for our next experiments. Con and I still favored the long shoulder, while Charlie would have none of it; and he set to work and produced dies for a case having the most abrupt shoulder I had ever seen, and being very similar to the .250 Savage, with a very short neck. He intended it for short bullets of 78 or 87 grains weight. I got my first news of it by the arrival of a rifle with 28-inch Sukalle barrel of about the same weight as the regular Remington sporting 30-S barrel; also cases and tools. We again set to work, and I soon found that the 87-grain Peters protected-point bullet was the best of all then available for long range, it giving very small groups, many of which could be covered with a silver dollar, at 200 yards, bench rest. My rifle was fitted with one of O'Neil's own excellent hand-made prone stocks with cheek-piece, and with the J. R. Adriance set trigger; and with my Lyman 8X Targetspot scope it did not take me long to find out that we had finally found the perfect .25-caliber Magnum cartridge.

As Charlie had worked out this case himself, I named it the .250 O'Neil Magnum. It handled just as much powder as the larger .30 Newton case, and with never a sign of the uneven pressures we had fought so long with the Newton case. The barrel did not heat up any more than that of a Krag for a similar number of shots, and the bolt handle lifted easily with one finger. Our commercial bullets were still too soft and thin-jacketed for such velocities, but while I was in the act of writing Charlie to continue his work with the bronze bullets, the first sample lot of my new 87-grain Spitzer open-point bullets arrived from Western Tool and Copper Works. They were beautiful bullets, with a very long and slender point like that of the famous 160-grain U. S. Cartridge 7-mm. boat-tail bullet. I immediately mailed a batch of them to Charlie, and W. T. & C. also sent him a sample lot; and he liked their looks so well that he decided against going further with the bronze bullet. However, we were doomed to disappointment, as I had specified too long a point for stability, and the bullets wobbled badly and were not accurate in either of our two 28-inch barrels with 18-

inch twist, or in Charlie's 14-inch-twist Winchester barrel. I had thought the 18-inch twist was too slow for them, but the 14-inch-twist Winchester proved them to be inaccurate beyond shadow of doubt. These bullets were jacketed with a new and much harder alloy, and did not slug in the bore. I still believe that the points would be just right on a 100 or 117-grain bullet, but they were certainly too long for proper balance on an 87-grain bullet.

Accordingly Charlie and I sent Mr. Martin some samples we had sawed and filed down to a form that we knew would be accurate, and still retained as much of the streamlined Spitzer shape as possible. Some of these were made up for us, and they proved to be exactly what we wanted, and we soon satisfied ourselves that they were superbly accurate at any range. These bullets were also 87-grain, as we had decided that this was a good weight for long-range coyote work. Charlie wanted some also in 78-grains, and Western Tool and Cooper made up a batch of these experimentally, but later decided against anything lighter than 87 grains for best accuracy. The new bullets were finally put into production in 87, 100, and 110-grain weights. They are without doubt the first .25-caliber bullets that are suitable for really high velocity. Western Tool and Cooper produced them in two styles for each weight, one having a thin jacket and the other with a heavy jacket. The thin-jacketed bullets are intended for blowing up pests, while the thick jackets are for game.

Bench-rest testing produced for me many groups at 200 yards that could be covered by a silver dollar, and seldom was any group larger than 2-3/4 inches, while my barrel was good. Having heard so much about the Donaldson-formula graphite wads, and having had fine success with these in my .22-4000 Schmitt heavy-barrel rifle, I determined to use them altogether in this new Sukalle barrel, and loaded these wads into all cartridges that were to be fired in that rifle. Charlie was not in favor of the wads, as several engineers had told him that graphite under intense heat becomes abrasive; and he loaded all his cartridges without graphite wads. We decided to see which rifle would last the longer—mine with the Sisk wads or his without wads.

Charlie had now shot his barrel nearly 700 rounds, and it still gives good accuracy, while mine quit cold at 250 rounds, with the graphite wads. Both barrels miked .2575" before they were fired, and were as alike as two peas; so I for one am very, very doubtful about these Donaldson graphite wads having any beneficial results in modern ultra-high-velocity rifles. There may have entered into this test some other factor that I am not aware of, but I cannot see how, as we both

used the same powders, primers, and bullets. Anyway, I am off graphite wads for good and all. In the .22-4000 I could not detect that they raised pressures at all, but they certainly did in this .250 O'Neil Magnum, and forced me to cut the powder charge one grain.

We had been getting 4250 feet velocity with the 60-grain .25-20 bullets, very close to 4000 feet with the 87-grain bullets by W. T. & C., and 4050 feet with the W. T. & C. 78-grain experimental bullet. We have not tested the 100 and 110-grain W. T. & C. bullets for velocity, but know that they will go higher than the previous heavy bullets we tested in the .30 Newton case. And we also know that the bronze bullets would give still higher velocity in the new case.

We found that the best loads tried were with Remington No. 9 1/2 primers, and with the 78-grain W. T. & C. bullet, 60 grains of duPont 4064, while with the 87-grain W. T. & C. bullet we found 58 grains of the same powder to be just right. The Peters 87-grain bullet with 53 grains of this powder was very accurate, but it could not be loaded to such high velocity, as the jacket was too thin. This Peters bullet did give woodchuck accuracy up to a full 400 yards, however, and usually made 2-inch groups at 200 yards. Possibly a wad of pure Japan wax, without any graphite, might be beneficial in cutting down erosion; I do not know yet. However, I am convinced that for long barrel life the graphite is no asset; and I am also convinced that the solid bronze bullet is the real answer to such velocities as these, for long barrel life. Only time and a great deal more experimenting will tell definitely.

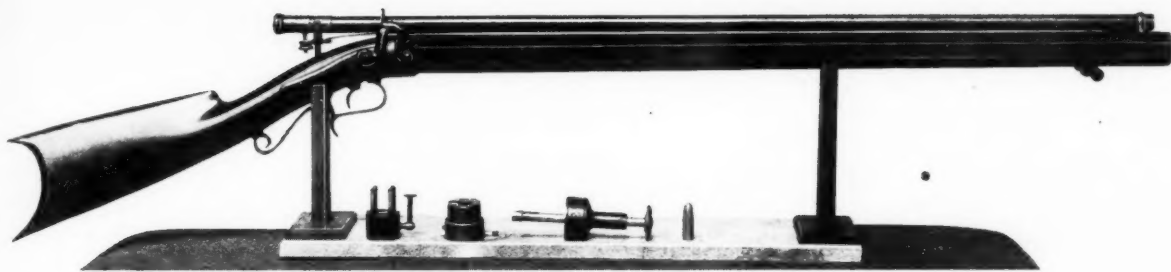
When the rifle first arrived Don Martin and I drove up the Pahsimeroi valley for a couple of days of pest shooting with my 28-inch Sukalle barrel and plenty of Peters 87-grain protected-point loads. In all we fired 28 shots at chucks, eagles, jacks, and fish-eating cranes, and missed but three shots, that we purposely held over at long range. When we held on anything up to 300 yards, and at the top edge up to 400 yards, we always got results; and such results they were! Those expanding bullets simply blew out the other side of the jack or chuck, and nothing moved thereafter. I killed both jacks and chucks at a full 400 yards, with Martin and Maelzer as witnesses. We decided that this was the most deadly and flat-shooting pest rifle we had ever used, and the results put my .22-4000 Schmitt and the .220 Swift in the shade at any range. It was the only other rifle I had used that seemed always to give the same certain results out at long range as my heavy-barreled .280 Dubiel and .300 Magnum. However, it was flatter, and what shots I missed were those I held over too much. Those Peters

87-grain bullets wobbled and showed some tipping at 100 yards, but out at 200 they had straightened up and certainly were accurate.

The first part of September last Charlie arrived from Minnesota, and we spent most of the month, when not hunting big game, in experimenting with the .250 O'Neil Magnum and the new W. T. & C. bullets. Charlie did much of the loading, while I did a considerable portion of the bench-rest shooting. Then we would take a couple of days off and go after the jacks again; and we certainly found that we had one real long-range cartridge, and one that was as far ahead of the .257 Roberts as that cartridge is ahead of the old .25-35. Using my 8X scope, we sighted my set-trigger rifle to strike the center of the bull at 400 yards, with the 78-grain bullet and 60 grains of 4064. Then when my group had formed in the center of the target Charlie moved the paper in to 200 yards while I remained at the bench, and I shot a group at that range, still holding exactly in the center of the 10-ring the same as I had done at 400 yards. This second group centered just 4 1/2 inches above the group shot at 400 yards, and as all shooting was directly into a hard wind and a steady one, it proved that the rifle was very flat. We repeated the performance with the 87-grain W. T. & C. bullet, and found that the 200-yard group centered just 5 1/2 inches above the 400-yard group. Compare this with other rifles of any caliber and you will see that this .250 O'Neil is a very flat-shooting cartridge.

When the antelope season rolled around, Charlie killed his record buck with a single shot at 150 yards with the W. T. & C. 87-grain bullet and 58 grains of 4064. The bullet struck at about the center of the lung cavity as the buck stood broadside. The animal dropped instantly, the bullet in striking him seeming to make almost as much noise as the report of the rifle. After dropping, he raised one hind foot and made two very slow, feeble kicks; that was all. The lungs were simply demolished, and the bullet did not touch the ribs on the off side except for a few particles of metal. No meat was damaged at all. I think Charlie used the thin-jacket bullet.

The Lord only knows what it has cost in time and money to develop this cartridge, but we feel that we have something that will go a long, long way, and that certainly beats the German Halger. It worked perfectly on Charlie's coyotes also, and should make an ideal purp gun with the thin-jacket bullet. With the 100 and 110-grain bullets it should prove very effective on deer and antelope in the hands of a good rifleman, though we only designed it for a coyote and pest rifle.



My first long-range woodchuck rifle. It belonged to my uncle, and was used by him when he shot with the Warner Riflemen

A Woodchuck Rest

By H. A. DONALDSON

ANOTHER woodchuck hunting season will soon be at hand. As the meadows and lowlands dry off and turn green with young grass and clover, riflemen will turn out to hunt chucks; and every year more and more riflemen will be found who are interested in vermin shooting as a training for the fall big-game hunt.

I know personally several very successful big-game hunters who attribute their success in long-range shooting in Arizona, Old Mexico, Alaska, and British Columbia to the training they acquired in making the long shots that are so often necessary when hunting woodchucks. More than one Western guide has been surprised at the long-range shooting of his dude hunter from the East on his first visit to the sheep country. For the rifleman who can sit down and kill woodchucks up to 300 yards and over will have little difficulty with the long shots encountered in big-game hunting.

I should say that the increase in vermin hunting was due to the improvements made in recent years to our standard small-game rifles and ammunition; also to the fact that good telescope sights are now available at moderate cost. While satisfactory woodchuck outfits have for years been in use by well-informed chuck hunters who were able to afford them, it is only recently that this equipment has been available to the man of moderate means.

One expert rifleman of my acquaintance does most of his deer hunting with a .30-40 Krag rifle, for which he paid the sum of three dollars. He had the rifle fitted with a custom-made stock and aperture rear sight. This same rifleman, however, has more than two hundred

dollars invested in his woodchuck outfit; for the shooter who is really interested in chuck hunting will not be satisfied until he has gone the limit in obtaining the best outfit available for his purpose. However, because of the recent developments in rifles, ammunition, and telescope sights, a shooter interested in vermin hunting can today obtain a complete standard outfit for less than the cost of the telescope alone a few years ago.

My own chuck hunting began with an accurate muzzle-loading percussion squirrel rifle of about .30 caliber. I used a heavy charge of fine black powder in it, and it accounted for a large number of woodchucks. When my uncle had fitted this rifle with a long small-diameter Malcolm telescope I felt that I had the last word in chuck outfits. However, quite often I would come across a wise old chuck that lived on a hill out of range of my squirrel rifle, and then I would borrow my uncle's heavy muzzle-loading turkey-match rifle, which used a long .45-caliber 550-grain bullet with cross patch, and around 100 grains of coarse-grained Hazard's black powder.

At times, on these occasions, nearly a whole day would be consumed in preparing for just this one shot. I would select a spot from which to shoot, and then carefully measure the distance from this point to the woodchuck's den. Following this

I would build at my firing point a rest for the heavy rifle. While I was building the rest the chuck would be watching from the hilltop, and no doubt wondering at all the activity of the youngster in the meadow far below.

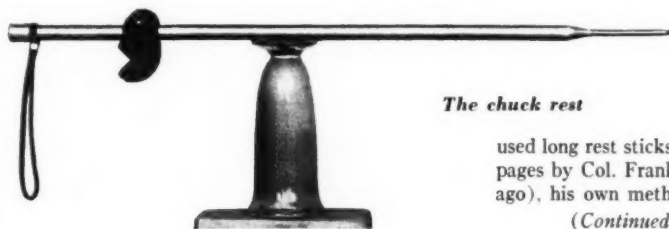
My uncle would carefully load the rifle at home, and then hand me the percussion cap, with instructions not to place it on the nipple until I was ready to shoot. He would adjust the sights for the range I had given him, whereupon it was up to me to lug the heavy rifle out to my newly-constructed rest, and lie down and shoot.

There were no sighting shots, and there was only the one load in the gun; and I would take the utmost pains in aiming before touching the set trigger. Sometimes I would lie for hours watching the chuck until he would sit up; then I would center the cross-hairs on his body, and ease off the trigger. When everything went well I would have a chuck's tail to bring home with me, but if I got excited and touched the trigger before all was ready, I would have considerable explaining to do.

This experience in the use of a rest in woodchuck shooting convinced me that for long shots fired from prone some sort of a portable rest was necessary. Now it so happened that in our town lived an old man who had gone to California in the gold rush of 1849, and had later come East as far as the plains country, where he had made a good living hunting buffalo. He told me that, while some buffalo hunters

used long rest sticks (as described in these pages by Col. Frank H. Mayer some time ago), his own method was to use shorter

(Continued on page 29)



The chuck rest

Memoirs of a Second-Rater

By ONE OF THEM

A SECOND-RATER is one who ranks next behind the champion. In spite of continued defeat he battles on, his only satisfaction lying in making the going hard for the champ; and, in the shooting game, the occasional doubtful pleasure of reading his name under that biting head, "The following also fired in the match." Typographically, as in other ways, there is but little difference between a champ and a chump.

As a second-rater who finally crashed the big time at Camp Perry; as one who has been through the mill of competitive shooting, I am moved to hand out some graduate and gratuitous advice. In doing so I hope that some of the other second-raters who swarmed over Camp Perry during the recent National Matches will be encouraged to battle on against Old Man Buck, the shoulder mirage arising out of a jerky trigger finger, and the countless other difficulties which they must overcome.

My first shot in competition was fired at least a dozen years ago. While I cannot remember where I fired it, I do remember that my initial success in competitive shooting was nothing to speak of. But I persisted. One match trained me for the next, until the peak of my career to date was marked by winning a silver medal in the National Individual Rifle Match. If that isn't a success story, you tell one.

This not inconsiderable degree of perfection in marksmanship was attained by constant practice. If you would become a consistently good shot, then shoot, shoot, and keep on shooting. Lay your entry fee on the line for every match you can afford. In competition or in practice make it your goal to better the score of your last time up. Even with a little improvement each time you'll soon be out in front when all the noise of firing dies down. And then comes the pay-off.

After following this plan of entering every match within reach, I find now that I have fired in so many matches that I have lost all track of them. Though I have but surprisingly few medals and no cups at all to show for my entry fees, I have won enough money to replace my rifles as they wore out. The greater reward is the satisfaction of learning to shoot, in competition, under all sorts and conditions of wind, weather, firing points, pit service, scoring systems, and rules—some of them strange and wonderful to a degree.

To illustrate but one broadening experience in the life of an itinerant competitor,

in order to enter a certain country match—a local match as distinguished from the big league at Perry—I used to drive into the rising sun for three hours in order to arrive at the range on time. Then, more often than not, I found myself on the first relay while still half blinded by the sun. Try that some time if you think your shooting eye is improved by squinting along a metalead road into the sunrise.

During part of my shooting career I had trouble with my eyes other than the temporary semi-blindness just mentioned. At one time, as a result of constant reading while flat in bed during a prolonged illness, my perfect eyesight—the primary requisite of a rifleman—failed to a great extent. There followed three years of black despair on the range; years when, after a momentary glimpse of the bull's-eye through the aligned sights, that bull would shimmer, shrink, and disappear before the trigger squeeze could be completed.

The struggle against this affliction was heart breaking. Corrective glasses helped a little; tinted shades clipped over them helped a little more. During this period I abandoned the normal aim at the longer ranges. Instead of firing at the place where I had seen the bull disappear into a perfectly blank target, I tried lining my sights on the top right-hand corner of the frame, and dropping them down and in—infrequently I held on the bank, on the target numbers. I tried every variation of any screwy aim which held even the faint hope of a good score. Finally the good scores materialized, but by that time my eyesight had returned to normal. Who knows but that the sighting training restored it?

During this period, when I often wavered over a decision to give up shooting, I gained a great measure of encouragement to continue from watching an indomitable spirit more severely handicapped than I was. This stout lad had lost a leg at the hip, but not his fighting heart. In spite of his handicap he fired regularly in an annual match which I attended. When sitting he took a position with both legs extended, his artificial right leg crossed over his left. That brought his wooden foot within two inches of the muzzle of his rifle. I used to watch him in horrid fascination as he fired rapid fire. After each shot I expected that his coordinated swing and bolt manipulation would break, and dreaded to see him blow off his wooden foot.

We never protested his unorthodox

position. It seems to be the rule of the shooting fraternity to give the other fellow all the help and all the breaks you can, and then beat him. There's more fun that way.

I have learned to endure unruffled the delays incident to firing in country matches. Where formerly they would drive me to the brink of the uncontrollable jitters, now I can wait composedly all day long for the various calls to the different stages of the match. Also, I have learned to adjust my inner man to these delays, to fire on top of a big meal, a scanty lunch, or to spraddle out on the hard, hard firing points with no food at all between me and the ground.

I have learned to keep at least one eye and both ears on my scorer. Too often this official is only an interested townsman who knows little about scoring and nothing at all about rules and time limits. I always make it a point to have an understanding with him as I go up on the line, and tell him just when I will begin to fire for record. Such an understanding, before you have fired a single shot, is more effective and cheaper than a protest later. And, in passing, a word about protests. Before you pull out the protest fee in indignation, reflect that the target pullers are several hundred yards nearer the target than you are, and can see it just that much better.

A competitor should bear in mind that he is a guest on the other fellow's range, and conduct himself accordingly. Perhaps his range isn't maintained as well as the one you have, but it's the one you must fire on that day. Keep your mind on your shooting and off those hard rocks and piercing cacti that prod your tender flesh.

All my life I shall remember the most unusual firing point that ever discomfited a rifleman. In a match in a neighboring town out West I found that the short-range firing points were in good condition because they were in constant use, but the 600-yard firing point was a dream. Sometimes, after all these years, it still comes back to me as a nightmare. At 600 yards the local yokels had dumped several truckloads of loose dirt at each firing point. No attempt had been made to either level off or pack down these soft, six-foot mounds which towered above the surrounding terrain like gigantic chocolate drops. However, the range officer did provide each contestant with a shovel, and we leveled off our individual mounds to suit our own ideas.

(Continued on page 29)

Use of the Stadia in Hunting

By H. E. BARTLETT, A. S. C. E.

WHEN hunting big game with high intensity rifles it is of vital importance to the sportsman that he shall be able to estimate correctly the distance at which the quarry is located. How important this ability is may be judged from an example given on page 79 of Bevis and Donovan's "PRACTICAL EXTERIOR BALLISTICS". In that example it is assumed that a hunter estimates the distance to an antelope to be 500 yards and that its vertical vital zone is 12 inches. The computation shows that if the hunter over-estimates the distance by 29 yards he will miss the animal by shooting over. If, on the other hand, he under-estimates the distance by 22.7 yards he will score a miss by shooting under the animal.

Such accuracy in judging distances is not possible, even by those skilled in estimating distances. A hunter who can estimate a distance of 500 yards within 50 yards would be rare, while many would miss it by as much as 100 yards, or an error practically four times as great as that which would be permissible. Hence, anything which may enable the hunter to estimate the distance at which he is shooting is of first importance.

Doubtless many of the readers are familiar with the method sometimes used for ascertaining the height of a building. A two-foot rule is held at arm's length in such manner that its tip will line up with the top of the building and the thumb is moved into such position that it will be in line with the bottom of the building. The length of the rule intercepted is then read off. The distance to the building is then measured or stepped off. The height then is easily determined by simple proportion, that is, the distance from the eye to the rule is to the distance from the eye to the building as the intercept on the rule is to the height of the building. Since three terms of this proportion are known, the fourth

(height of the building) is easily computed.

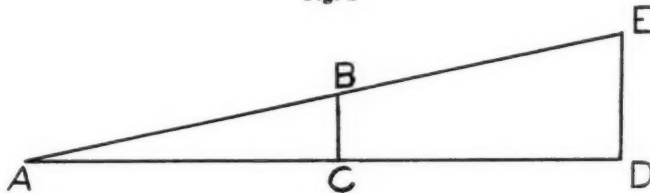
The problem just given involves the well-known geometrical principle that, in similar triangles, the homologous sides are proportional. Thus, in Figure 1, since the triangles ACB and ADE are similar, the following relation exists:

$$AC : AD :: BC : ED$$

$$\text{Hence, } AD = \frac{AC \cdot ED}{BC} \dots (1)$$

The stadia is a method well known to engineers for determining the distance of an object without resorting to direct measurement by a tape. Its fundamental principle is that of similar triangles, just as illustrated in Fig. 1 above. It consists essentially of two horizontal wires placed in the focal plane of a telescope objective.

Fig. 1



Through this telescope may be observed with great accuracy the space on a graduated rod included between the two stadia wires. The graduated rod may be one designed especially for the purpose, on which are shown feet, tenths of feet, and hundredths of feet, or it may be merely an ordinary leveling rod, preferably one of the Philadelphia type. With suitable equipment measurements with the stadia may be made with an error of about one in 500, that is, at a distance of 500 yards the probable error would be only one yard. That is an accuracy 25 times as great as would be necessary in estimating the distance to the antelope above mentioned.

A telescope reticle equipped with stadia wires is shown in Fig. 2, and one form of graduated rod adapted to stadia work is shown in Fig. 3. It will be observed that the reticle is merely the ordinary rifle scope reticle with single wires to which have been added two horizontal wires, one on either side of the center wire and at equal distances therefrom.

The vertex of the similar triangles when using the stadia is not the plane of the horizontal wires, but a point in front of the

object glass equal to the focal length of that glass. The correctness of this statement can be shown by the laws of lenses, but this discussion need not go into that demonstration. However, to those interested in the matter, an exposition of the fundamental principles of the stadia may be found on page 192 of "ELEMENTARY SURVEYING", by Breed and Hosmer.

For the purposes of this article it will be sufficient to state that it can be shown that the distance, D, of an object from the object glass of a telescope can be ascertained from the formula:

$$D = \frac{FH}{S} + F \quad (2)$$

In which D = distance to remote object, F = focal length of objective, S = space between the two stadia wires, and H = intercept on the rod as shown between the stadia wires.

Now, in the same telescope, both F and S are fixed quantities, hence $\frac{F}{S}$ is a constant. It is the usual

practice to so space the stadia wires that the intercept on the rod shall be one foot at 100 feet. Since in most rifle scopes, F is approximately only one foot the last term, F, in equation (2) may be disregarded, and the distance in feet to the animal or other object may be estimated by simply multiplying the intercept on the rod (in feet) by 100.

Since the two outside wires are equally spaced from the center wire it is plain that the intercept between the center wire and either of the two outside wires may be used in ascertaining the range. The only difference would be that, at a given range the intercept would be only one-half the intercept between the two outside wires. The use of

(Continued on page 28)

Fig. 2—Reticle with stadia wires

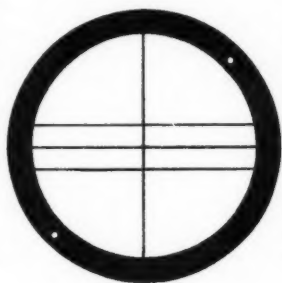


Fig. 3—Rod graduated for stadia work. This is actually a leveling rod, but can be used for stadia work. Even feet are marked in red figures



Winter was my time for shooting and experimenting

Homesteads and Guns

By P. H. MANLY

IT IS sometimes asked what kind of guns the homesteaders used in years past. Now, the time that most of the public land was taken up in small pieces by homesteaders, and grabbed in large tracts by the big companies, was between 1890 and 1910. This period also marks the time that smokeless powder was first introduced, that jacketed bullets came into the picture, and the supply of game was already beginning to dwindle. Few homesteaders were gun-cranks; they couldn't afford to be, and just traded for what they thought they needed, or could get, or bought a new gun when one appeared to be necessary.

If a man had had the money to live on a claim and improve it, he could have bought land, and would not have had to suffer the many hardships of the true homesteader; but most of us did not have the price for that, so we took up a claim, wore overalls, and used most any kind of a shooting-iron. Large game had been pretty well thinned out by this time by hide and market hunters, and a homesteader just used a gun for getting pot meat, or for peace of mind when

traveling alone over long and lonely trails.

I was something of a gun-nut even then, and shot a rifle at a target for amusement and pastime, as well as to learn how to make better scores. I had a new rifle once a year at least—a different one that I thought I needed, or that might shoot straighter, or something. A new suit of clothes was a rare thing, and not to be indulged in every year, but a new gun was something to be looked at, fondled, or used, nearly every day! I had to work in a logging camp during the

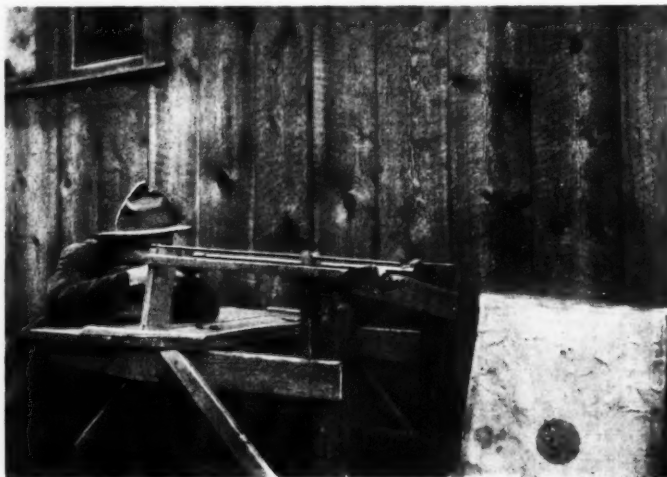
summer to earn money with which to buy winter grub and supplies, while I put improvements and a residence on my claim in the winter. Often I would spend weeks of idleness while I watched the snow get feet deep, and more weeks waiting for it to leave; and this was my time for shooting and experimenting.

It is a very unusual mortal who can meet a big healthy bear in a trail, push him out of the way, kick Bruin in the seat of his pants, and advise him to take some other path next time; and most of us preferred to tote some kind of a shoot-

ing-iron and start a fusillade long before Bruin got close enough for a handshake. Of course if we didn't have the gun along and the bear refused to give room, we would be very willing to do some plain running. Also, without the gun one was apt to see some big varmint, so a gun usually accompanied me on every trip.

Some individuals are more scary than others when roaming around at night. I have seen big, strong young men who wouldn't travel afoot in the woods country after dark without a lantern, and a big six-shooter

The writer and an old bench rest



strapped on. I wasn't any braver than others, but I knew and understood the woods sounds, and my imagination did not get the better of me.

I had more guns and did more shooting than an entire average neighborhood, yet in all of those years I owned but one revolver: a low-priced Hopkins & Allen seven-shot .22, with 6-inch barrel. I bought it to carry on fishing trips, and for shooting pot meat. I can remember killing only three pests with it. The first was a goshawk, at 28 steps, about New Year's one winter. The hawk had killed a blue grouse, and was standing over it in the trail in the snow. The two other pests were killed by accident. An Indian family living down along the creek, on the road to town, kept three small dogs that met every passer-by and noisily escorted him far past their domain. They also stampeded every bunch of cattle that the stockmen tried to drive past there. I had often been insulted by these barkers, but was never injured by them until one fall day. I had silently walked past the place in the dust in order to avoid the usual commotion, and was out of sight of the house when the dogs spied me. They set out to make up for lost time, but my yell as I received a bite in the leg started them back toward home. To give them a good scare I opened up with the revolver, sending a .22 Short at one's legs as it ran from me, and taking a crack at the other's middle as it ran sidewise to me about 60 feet away. This one gave a little yip, I thought.

About two weeks later, on the road to town, I met the cowman. "Say," he said, "you sure fixed John Cayuse's dogs when you came from town."

"Why?" I replied. "One bit me, and I shot the .22 to give them a scare."

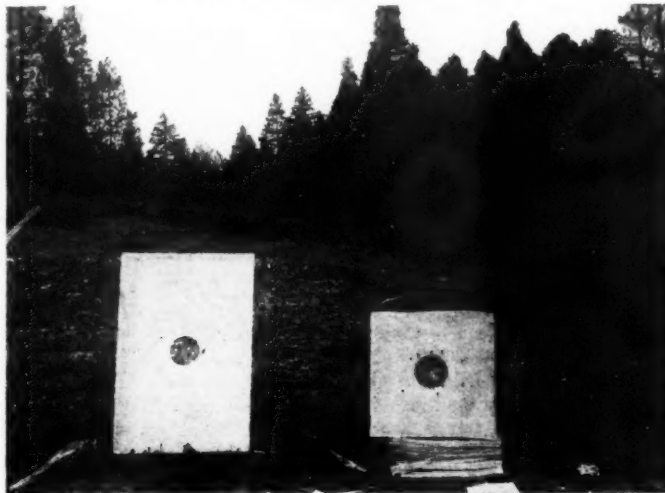
"Yeah, you shot to scare, all right. One dog made it to the house before he died, but the other only got to the gate!"

As the cowman considered that I had done him a very good turn, he being afraid to plug

those dogs himself, he had told the Indian that he did not know who the fellow was who had passed that day. The Indian went to the Justice of the Peace, and said: "One day, last week, man come by me place, shootum two times, killum two dog me, thisum way—" with one arm extended. "Bad man, that, eh, John?" replied the J. P., who was an old-timer, and wise to Siwash dogs.

Shooters nowadays don't realize how

I had a target range on the homestead



Where I shot from when the snow was on

fortunate they are in having non-corrosive primers and smokeless powders, especially in .22-caliber ammunition. With that revolver of mine I could shoot but a cylinderful of smokeless cartridges before the oil would be burned off the works so that the cylinder would not turn. With black-powder cartridges a dozen shots would gum things up so that the cylinder turned very stiffly, but with Peters Semi-Smokeless shells I could shoot a boxful, as the fouling stayed soft and moist. My, but it was hard to clean a .22 so that it wouldn't show rust the next day, after using those old smokeless shells! And when a fellow has a gun, he wants it to work!

One night when I was coming home after dark a rattle-snake welcomed me in the wood shed, which was built against one end of the cabin. I lit a match and emptied the .22 into him at about 8 feet, making the shed safe to walk through. But this rattler was far more considerate than another one, that got into the pile of wood in the shed. I had to throw out a cord of stove wood, kill the snake, throw the wood back in again, and then pile it up!

One young settler had a new .30-30 Model 1894 Winchester, but he could not get the bore bright though he cleaned it with everything he had, even scouring it with ashes. He finally brought it to me, and I had him try some neat's-foot oil in it. Perhaps there was some moisture or something in that oil, but at any rate it loosened the fouling, and the corruption came right out of that .30-30 bore! Another settler, who had been a trapper, would use nothing but coyote oil in his rifle, saying that it was the stickiest oil he had ever seen.

We did not worry very much about vermin then. A coyote was to be shot upon every occasion, of course. A hawk not in the act of catching chickens was not to be worried about, as there were plenty of gray squirrels, blue grouse, native pheasants, and a few bear to shoot at, though deer were get-

ting scarce. Any bird or animal that is not edible and that interferes with man's pleasure or his pocketbook, is classed as "vermin", and it was the little pests in large numbers, such as chipmunks, bluejays, crows, and woodrats, that got the homesteader's peace of mind as well as his crops, and started the settler to shooting. A mouse chewing at night on the grub-box, or a woodrat galloping on the roof, disturbed the settler far more than a cougar out in the woods. A woodrat can make more noise to the square inch than any other animal on earth! He will keep up his whoopee until daylight, and the variety of his sounds and the unexpectedness of each one in turn will keep any listening mortal far from the realm of slumber!

The spritely little striped chipmunk often exasperated me at the homestead, by his numbers and his ability to rustle grub. They dearly loved the wheat in the grain hay, these chipmunks, and I once took nineteen grains of field corn out of one chipmunk's cheek pouches when he was taking a load to his cache. In the slashing the hazel bushes grew up again, and were full of nuts; but the chipmunks took every nut but the wormy ones as soon as the nuts would shuck. So I declared war on them one spring, and busted more than a hundred with the .32-20 rifle—and gathered three gunnysacks full of delicious hazel nuts that August! A homesteader who had a .22-caliber rifle and liked to shoot, by invitation one day stationed himself near a neighbor's barn that had some wheat hay in it, and in two hours shot forty-seven chipmunks. These chipmunks, in such numbers, would soon have reduced that hay to evil-smelling straw.

Another pest that thrived in the Cascades was the Western bluejay, and he surely was a stealer! He dug my spuds, eating the big ones and carrying off the little ones; ate wheat, shucked and shelled my field corn by the bushel, picked every berry in the garden, and squalled loudly all the time except when he was swallowing a big bite! The jay is always hopping and moving, so he is a hard target to hit with a rifle. Once I put in a whole day just shooting bluejays, and killed thirty-five; but I could not notice any difference in their numbers. I had thought that if I could kill the first one that came scouting around for eats, before he went back to get his friends and his wife's numerous and hungry relations, they wouldn't arrive in numbers and bother me so. I was mistaken.

Among the odd things that I secured through trading was a crow call. I used it one day when the crows were building nests, and killed thirteen in a short time with the .32-20. This encouraged me, and on July Fourth I bombarded them

again. The young could hardly fly, and the parent birds were unusually watchful; and the crow call, so manipulated that it sounded like a young crow in distress, brought all the old ones within hearing in a hurry, and they stayed as long as they could stand the shooting. When the last .32-20 shell was empty I had twenty-five crow-heads on a stick, not counting the few that had lodged in the trees too high for me to reach. With the opportunity I had I should have killed 75 crows that day, but I made a lot of noise. About the only thing I had against the crows then was that they disturbed my night's rest during haying time in the swale country. After faithfully using a pitchfork for twelve hours during the day, I could not afford to lose any sleep; and the crows' clamor started with daylight.

As I said before, deer had become scarce, and on too many deer hunts we got nothing but exercise. I figured that I got more meat, really, and had more fun, when I hunted small game closer to home, so I began to use a smaller-caliber rifle, and finally settled on the .32-20, which would do for the occasional shot at a deer. It busted a bird or squirrel too badly with the regular flat-pointed bullet when I could not make a head shot, so I got a mould for the Ideal No. 30812 bullet—95-grain sharp-pointed. This bullet when cast of hard lead did not make a hole through a bird or squirrel any larger than a .22 bullet hole, but it delivered more shock than the .22. It would make a nicely rifled hole, bullet size, through a bar of soap, but shot into a deer this bullet would tumble and make a bad wound. A peculiarity of my .32-20 Stevens rifle was that it would shoot this 95-grain sharp-pointed bullet and the regular 115-grain flat-point bullet with the same elevation up to 500 yards, using the same powder charges.

One fall I bought a Winchester Single Shot in .32 Ideal caliber, with 30-inch No. 1 barrel, thinking it would be a great rifle for all-around shooting. I also got an Ideal No. 5 powder measure and a Perfection adjustable bullet mould for grooved bullets of from 75 grains to 225 grains in weight. It was a great combination for experimental shooting, anyway. The regular load employed 25 grains of black powder and a 150-grain bullet, but I made better groups and got higher velocity with a 125-grain bullet and 28 grains of powder. As the rifle had a No. 1 barrel it was too erratic for rest shooting, but it shot well offhand, and I used it until I could call my shots to a half-inch at 100 yards—though I could not foretell closer than 6 inches where my next bullet would make its mark! It seemed to me that black-powder rifles with a fairly large powder

charge, and using from 4 to 4½ grains of bullet to each grain of powder, were the most accurate and speedy, as well as the longest-ranged rifles. Calibers like .25-20-86, .28-30-120, .32-40-165, .40-90-370, and .45-120-550 were the best. Bullets lighter than this ratio were usually too speedy to be good groupers, while heavier bullets, though perhaps accurate and long-ranged, had too high a trajectory except for target shooting in good weather.

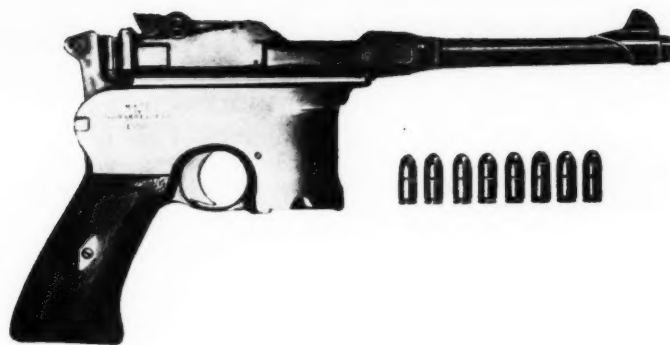
For several years I kept a 12-pound Schuetzen rifle, which was a great curiosity with visitors. It was a .25-20, Ballard action with Winchester No. 3 barrel 32 inches long. Even the lady who had the homestead cornering with my place stopped in one day with my mail, and tried a few strings with the Schuetzen from the rest table. She was almost peeved when she could not beat me at shooting the way she did at cribbage! Finally I found that I could make better rest groups with the .32-20 Stevens, and as I could not take the Schuetzen to a country turkey shoot, I had to let it go.

In those days nearly all general stores kept black powder and primers, and lead in some form. I usually bought my powder by the keg, as it cost only half as much that way as by the pound. One day in another town I asked a hardware man if he had any No. 1 primers. "Sure," he replied, laying two or three 100-size boxes on the counter. "Got any more?" I asked. He dug out eight boxes. "Is that all the No. 1's you happen to have?" I inquired. I thought he would faint. He couldn't imagine what anybody would want with eight hundred primers at one time; yet what were a paltry eight hundred primers to a gun-nut for a whole winter's shooting!

From the stage road to my cabin, the last mile of the trail went through heavy virgin timber, and I often took this trail at night when it was so dark that I could not distinguish a white flour sack in the gloom. I found my way by tapping along the edge with my foot, as the trash at the side of the trail sounded different. In all this time I never saw or heard anything to frighten me. The only time I ever heard a big cat squall was in a brush-patch out in a well-settled farming community; but oh those eerie screams that make your hat feel as light as a feather and send tingly sensations along your spinal column—with a strong desire on the part of your legs to take your body elsewhere!

But I never received a scare such as did a young settler friend once. My brother had a claim near his, and kept a shoat, which ran out and rustled acorns in addition to its feed at home. The pig bedded-down one night about a quarter of

(Continued on page 30)



A Streamlined "Mauser" Pistol

By ALAN O. BORDEN

IF asked to determine what type of weapon had fired a sample bullet shot from the pistol shown in the illustration, even the most capable forensic ballistics expert would guess wrong. The bullet would be identified as a .380 A.C.P. as used in Colt, Savage, Remington, and other pocket automatics, but close examination of the rifling markings would indicate that it was fired from a Remington rifle. This would not seem impossible to the expert, for adapters are available for using the .380 pistol cartridge in .35-caliber Remington rifles, and he would confidently announce that the slug had been shot from a .35 Remington rifle using an adapter. An entirely reasonable deduction, but erroneous.

The pistol illustrated was made by Orin J. Harrington, an N. R. A. member who had never done any gunsmith work prior to this undertaking, and who is not a machinist, although he has a considerable amount of ability in that line. Mr. Harrington, like most of us, has his own ideas about what he wants in the way of pistols, and like many of us he wanted something that was not commercially available. Instead of cussing the mercenary shortsightedness of arms manufacturers, and letting it go at that, he decided to make the pistol he wanted.

The result is a pistol patterned after the military Mauser, but modernized in appearance, with an improved handle and a number of minor changes in design. Instead of the high-velocity 7.63-mm. or 9-mm., it is

chambered for the .380 A.C.P. cartridge, which was chosen for its low breech pressure and light recoil. In finish, fitting of parts, and smooth functioning, this pistol is comparable to the pre-war export Mausers—which means that it is very good. It is not only an outstanding example of what can be done by a gun crank who has machine-shop facilities, but is also a very good illustration of the futility of those recurring proposals to disarm everyone and stop the private manufacture of pistols and revolvers.

All parts of the pistol were made entirely by Mr. Harrington, with the exception of the barrel, which was made from a section of .35 Remington rifle barrel, and the rear sight, which is an old military Krag sight cut down and altered. No Mauser pistol was at hand to serve as a pattern, and Mr. Harrington used rough drawings, previously prepared from a borrowed pistol, as a guide in making the principal parts. The illustrated parts

list in Stoeger's catalog was also found useful.

In the original Mauser, the barrel and bolt casing are integral, while in Harrington's pistol the barrel is screwed into the bolt casing. The frame of the original is a one-piece drop forging; Harrington made the handle section and the two halves of the receiver separately, milling and machining them from the solid, and assembling them into a unit with pins and rivets. Like the original, this pistol has a short striker working on the inertia principle against a spring, so that the hammer may be safely kept in the lowered position with a cartridge in the chamber. The manual safety of the Mauser was omitted, as it was considered unnecessary in a pistol with an external hammer and safety firing-pin.

The only difficulty experienced with the pistol since its first trials (which of course revealed need of minor adjustments in spring tensions and magazine feeding)

was a breakage of the bolt lock, due to brittleness resulting from too deep casehardening.

This breaking of the bolt lock strained the bolt spring stop, which also had to be replaced. The present bolt lock is larger than the first one, and made of tool steel. Considerable firing has failed to develop further trouble.

The grip and hang of this pistol are much superior to those of the Mauser, and the comparatively low-powered cartridge combined with the weight of the weapon gives a very light recoil. The barrel is 5½ inches long, which results in a light report. The distance between sights is 9 inches. Trigger pull is clean, not too heavy, and accuracy seems to be all that could be desired. No scores are available, the pistol not yet having been fired at a regulation target.



Restoring Muzzle-Loader Barrels

By LOU COWHER

BECAUSE of the large number of inquiries I have received since the publication of my article "Some Muzzle-Loader Experiences" in *THE AMERICAN RIFLEMAN* (April 1935 issue), I believe that many would like some information as to how to restore the accuracy of an old muzzle-loading rifle; for it is neither impossible nor impracticable for the average man to do this work.

The first step is to remove the barrel. I cannot give any specific directions for doing this, as there are seldom any two guns exactly alike; but take it slowly and carefully, and I am sure you will not get into trouble. Next remove the drum, into which the nipple, or tube, is screwed, being careful not to break the latter. Now

handle. Select a long, slender wood screw, cut off the head, and have it welded to the other end of the rod (See Fig. 1). I use this tool for both cleaning and lapping.

The brighter you get the bore the more freely will the lead casts that are used for recutting, slide through it, and without becoming deformed. So wrap enough cotton twine around the rod, close to the screw, to make a snug fit in the bore. Insert the rod from the breech end, and push it through until the screw protrudes from the muzzle. Fasten the barrel vertically in a vise, muzzle up, with the handle of the rod about two inches from the floor. Melt pure lead in a small ladle, and as the lead is heating, direct the flame from a blow torch on the screw and the

work freely through the barrel. When the cast is cold, drive it part way out of the muzzle, and trim off the end, which latter will be large for a distance of about one half the caliber. And incidentally, the muzzle was not worn this way but was so made to facilitate loading, for if it were straight as in a breech-loader, it would cut the patch. Now pull the cast through to the breech—and you may have to pull, pound, jerk, tap, and coax until it will work freely, always using plenty of oil. Smear on some fine valve-grinding compound, and lap the bore until the lead is too small; then make another cast, and lap until it, too, is worn out. If it was no trouble to get this second cast through the bore, you are ready to begin the

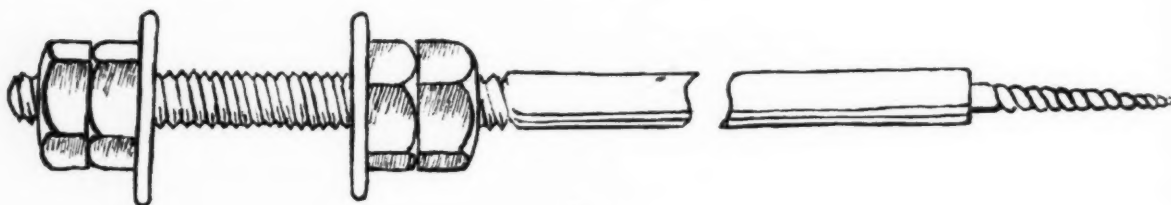


Fig. 1

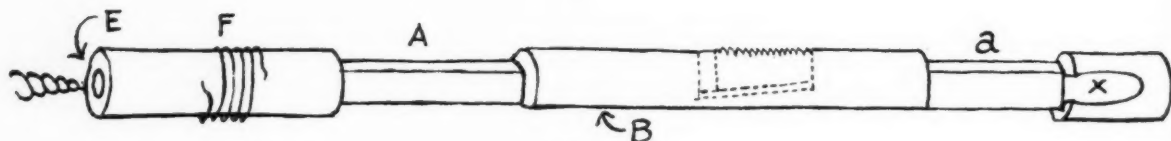


Fig. 2

remove the breech plug from the barrel. Never try to remove this until you have removed the drum, or you will wreck things, as the drum screws into the breech plug.

You are now ready to clean the barrel. From the last barrel I unbreeched I had to remove five or six old-fashioned fire-crackers before I could see through it. I mention this merely to show what condition you may find your barrel in, and still be able to "fresh" it like new. Take a steel rod of nearly bore diameter, and longer than the barrel. Thread one end far enough up to take a hard-wood handle, two washers, and at least four nuts. A ferrule should be used over the threads, or they will cut the

end of the barrel. The idea is to have the lead, barrel, and screw hot at the same time. When the lead, barrel, and screw are hot, step on the rod handle, which will pull the screw down into the barrel. Then pour in the lead.

This first cast should be short, so that it will not take too much effort to get it to

freshing. The idea of lapping before you fresh the gun is to get the bore in such condition that you will not ruin the wooden rifling head in the next operation. In lapping, use strokes the full length of the barrel, but do not let the lap slip all the way out of the barrel until you have finished with it.

I have used various types of rifling heads to hold the cutters, but I think the one illustrated in Figure 2 is far the most accurate. I make these heads from hickory handles, which you can get at any hardware store. Make the head to fit the bore, and about six or eight inches long. Drill one end to receive the screw on the end of the rod. Then cut to shape like Figure 2. First make the square sections A and a. Then slice off one side as at B to connect sections A and a. Now fit the wood to screw E, and

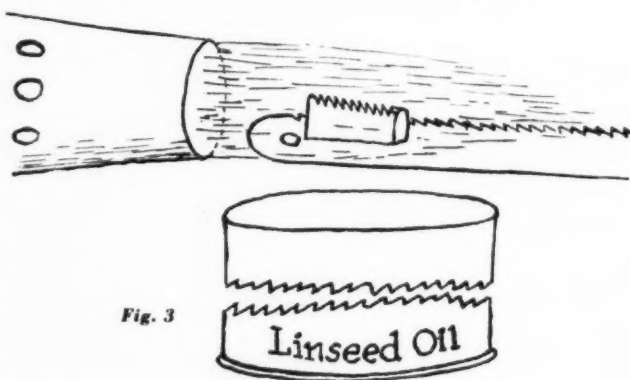


Fig. 3

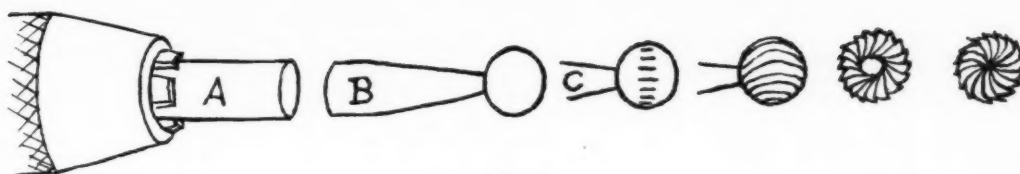


Fig. 4

wrap cotton twine around the end as at F. Push through the barrel from the breech, until gate X is exposed enough to pour the cast. Melt some half-and-half solder, or babbitt, and heat the muzzle of the rifle. When the muzzle is hot and the solder or babbitt melted, pour the cast on the wood. The temper of the metal is determined by the amount of effort it requires to pull the cast through the bore. If it is hard it will hold its shape better, and will not become so charged with the cuttings from the barrel.

You are now ready to cut into the wood, between A and a, the mortises for the groove- and land-cutters; this, of course, after you are able to pull the head through the barrel freely. Push the head out at the muzzle until the portion between A and a is exposed. Hold a finely sharpened pencil against the wood at the edge of a groove in the barrel, and have an assistant pull the rifling head back into the barrel, thus making a pencil line on the wood. If this line follows the side of the groove from A to a, it is O. K., so hold the pencil at the other side of the same groove, and repeat. These two lines mark the sides of the mortise for the groove-cutter. Cut the mortise in as per the dotted lines in Figure 2, making the bottom sloping as shown. The bottom of the cutter will be sloped to correspond, and the cutter will be about 1/8-inch shorter than the mortise. Thus when the rifling head is pushed from breech to muzzle, on the return stroke, the cutter will drop away from contact with the barrel, thereby reducing the wear on the cutter, and prolonging its cutting life. This idea alone was worth to me the fifteen dollars I paid for Howe's *The Modern Gunsmith*.

Now take an old, large mill file, and grind the sides smooth. I anneal them by heating to a dark blue. I find that this will soften a file as well as heating to a bright red and packing in lime to cool—and in a fraction of the time. When soft, saw out a piece a little larger than the mortise you have cut in the rifling head, and file to fit the mortise very neatly. Fit a thin piece of hickory in the bottom of the mortise for the cutter to slide on. Now set in the blank cutter, and file until it matches perfectly the contour of the wood. Then remove it, grip it in the vise, and cut the teeth. I find that

if I put teeth on these cutters like those on the edge of an 8-inch file, they cut smoother than any other form of tool I have ever made—and I have made plenty. For cutting the teeth in the cutter I use a three-cornered file one side of which has been ground smooth. You can cut the teeth much finer with a file ground in this way, as the teeth of the file come to a sharper edge, and will cut on only one side at a time.

When you have the cutter filed to shape, you are ready to harden it. I use a good hot blow-torch flame. Set the cutter on an old hacksaw blade, and hold in the flame until the edges begin to glow as if about to burn, then drop in linseed oil (Figure 3). I find that when quenching in linseed oil it is not necessary to draw to any color, as the cutter will be hard and plenty tough to finish cutting the lands or grooves without dulling. Never lay the cutter on its side, as that side will then be soft. The front and back edges of the cutter should be slightly rounded so that they will not cut or scrape. Of course the groove cutter should be made a hair wider than the old grooves in the barrel, in order to clean up the grooves on the sides as well as on the bottom.

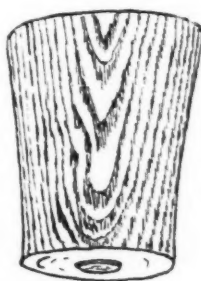
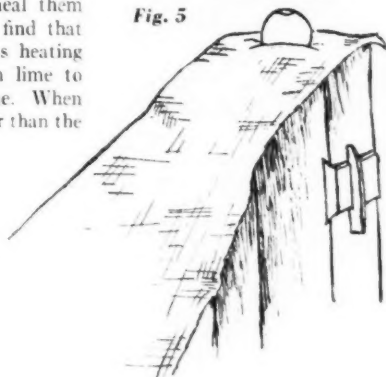


Fig. 5



You now have everything ready for the actual freshening. Put the cutter into the mortise in the rifling head, and pull through the barrel. If it does not cut, shim it up with pieces of paper under the thin wooden strip at the bottom. After the cutter takes hold, continue to pull it through the same groove until it will cut no more; then push the rifling head out at the muzzle, and turn to the next groove. Continue thus until all grooves have been cut to the same depth. Each time I pull the cutter through the barrel to the breech, I bring it out just far enough so that I can brush it off before returning it to the muzzle; then at the muzzle I push it to the other end of the mortise to raise it for the next cut.

I have always finished cutting the grooves, and then made a new cast and a land-cutter, and cut the lands until they were about the same height above the bottom of the grooves as originally. You should use plenty of oil on the cutters and cast, and I find lard oil to be the best.

When you have the grooves and lands perfect, then lap the barrel with a long lead lap. From No. 100 to No. 120 optical emery will do the job just about right. Use long, steady strokes on the lap, the full length of the barrel, and if you feel any tight places, give them a few extra rubs; then the full-length strokes again. The object in lapping is to make the rifling as nearly perfect and as smooth as possible. At each stroke the lap should run out beyond the end of the barrel just a little, but never let it go all the way out, as you are almost certain to put it back differently, which will ruin the job. If the lap should slip out, melt it off and cast a new one. A muzzle-loading barrel is lapped enough when you can pull through it a new cast without feeling any tight places. As a matter of fact, I have seen many muzzle-loading rifles do just as good shooting without being lapped.

I prefer a bullet of bore diameter. Should your mould be too small after freshening your barrel, you can lap out the mould. To make the lap, tin a small nail, set it in the mould, and cast a bullet around it. Then put on some fine valve-grinding compound, and turn with a brace. If one lap wears out before completing the job, cast another; and so on.

Figure 4 shows the various stages in making a mould cherry. Tool steel is the best material. The shaping is most easily done in a lathe, though it can be accom-

(Continued on page 30)

BRIDGEPORT, CONN.
APRIL, 1937

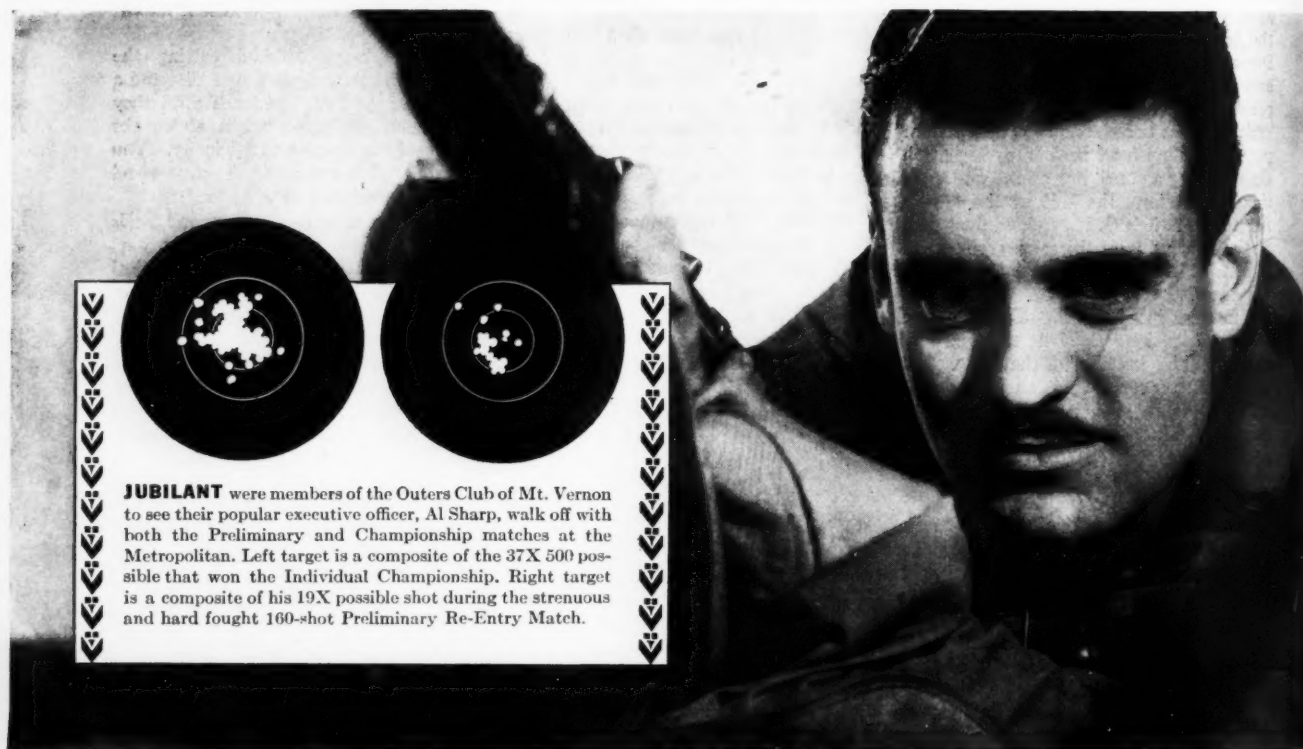
Rifle *Remington* News

DU PONT

A PAPER FOR PEOPLE
WHO SHOOT

AL SHARP SCORES DOUBLE VICTORY IN N.Y. METRO

**"VEEZ 73" SHOOTER TAKES "PRELIM" AND CHAMPIONSHIP
—PILES UP AGGREGATE OF 2499 x 2500**



JUBILANT were members of the Outers Club of Mt. Vernon to see their popular executive officer, Al Sharp, walk off with both the Preliminary and Championship matches at the Metropolitan. Left target is a composite of the 37X 500 possible that won the Individual Championship. Right target is a composite of his 19X possible shot during the strenuous and hard fought 160-shot Preliminary Re-Entry Match.

BROOKLYN, N. Y.—Satisfied with his Palma Match ammunition is small-bore rifleman Al Sharp of Mt. Vernon, N. Y. Shooting through the three Sundays of the 100-yard Metropolitan Matches he collected a score of 2499 x 2500, three 10X possibles, one 19X possible, first prize in the Preliminary Indoor Match (re-entry) and first in the 1937 Indoor Championship Match.

Sharp's phenomenal shooting has dem-

onstrated that riflemen can hold right up to the possibilities of ammunition as established in factory tests . . . that Remington efforts to develop hair-splitting accuracy have not been in vain. Of the 160 shots Sharp fired in the Preliminary, 109 were X's. He scored 500 x 500 with 37X's in the Championship, just nosing out rifleman Ken Clark of Green's Farms, Connecticut, who placed thirty-six of his Palma Match bullets in the X-ring.

Interesting, too, is the fact that out of the first fifteen competitors in the Championship used Palma Match and most of these, including the winner and the second-place man, shot "VEEZ 73". Today, riflemen are saying, "You've got to stay in the X-ring to win. The Metropolitan results prove that—indicate the start of a 1937 victory sweep for Palma Match shooters! Watch the boys with the ammunition in red boxes!"

KEN CLARK RUNNER-UP IN CHAMPIONSHIP SHOOTING "PALMA MATCH"

POSSIBLES AND IMPOSSIBLES

by FRANK KAHRS



Overheard at the Metropolitan:—"Hey, Bill, how is Jack going?" "Not so hot, he just went out for a leg!"

Which is food for serious thought when you see what a chap like Al Sharp is likely to do to the X-ring with "VEEZ 73."

Just heard that another good friend of mine has tasted of the new Palma Kleanbore and found it good! George B. Sheldon, of Poughkeepsie, scored a 200 x 200 with 17X's at a hundred yards, also a very pretty 400 x 400. Believe you me, gentlemen, this stuff is accurate!

I have a 50-ft. target here that I thought was a prone possible until I was told it was shot kneeling by Don R. McMillan of Gambier, O., with Kleankote at the Delaware Rifle Club Shoot (Ohio). He won the three position match with 388 x 400.

The Junior department is thriving. Richard E. Tiller, of Washington, D. C., sends me a 50-yard 5-shot possible that is very good indeed and notes that his dad is becoming enthusiastic about shooting, too. Tiller, Senior, knocks out 96 x 100's with Palma Match at 200 yards. Thanks, Dick, for keeping papa in line on ammunition.

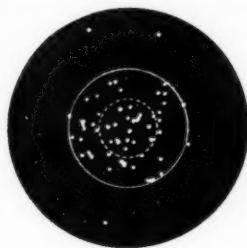
Now people in the shooting game appreciate the impressiveness of the record made by Marshall R. Grosskopf for his first time at Perry. He hails from Marion, Wisconsin, attended but one registered tournament, Camp Perry, fired but seven matches, yet here he is No. 5 on the Rifleman's ranking list. He made the Dewar Team, the R.W.S. Team and the Wisconsin-Caswell Team and shot a 200 in the Lyman. Not bad for a first year at Perry—and we couldn't resist mentioning that "Marsh" shot "VEEZ 73" every step of the way. Just wait until he gets going with the Model 37 that he has in mind.

Speaking of the Model 37, I can't help but notice one thing. Everybody, and I said everybody, who actually tries the gun says the same thing, "Isn't it easy to shoot?" There are lots of reasons for the Model 37 being easy to shoot. I'm inclined to credit the excellent trigger design, although the sights and smooth trigger pull have something to do with it. Whatever the reason, I say,

"SHOOT A MODEL 37 IN 1937"

Remington Announces New "PALMA KLEANBORE" MATCH CARTRIDGE

THE TARGET OF THE MONTH



Guy Morehouse of the Poughkeepsie (N.Y.) Rifle Club sampled the new Palma Kleanbore and produced this 596 x 600 at 200 yards. Trying out something new didn't bother this rifleman's holding—hence the "Target of the Month!"

Each month Remington will reproduce what is in their opinion "The Target of the Month." Only conditions: 1. It must be fired under N.R.A. rules. 2. Be witnessed by two people. 3. Be fired within one month previous to the time it was mailed to us. 4. Be fired with a Remington ammunition or rifle. Send "hot" targets to Frank Kahrs, Remington Arms Company, Inc., Bridgeport, Connecticut.



SAM BOND of New Philadelphia, O., runs a fine auto repair shop on week-days, makes targets like this on Sundays. Target is a composite of his winning three-position 292.

596 x 600 shot by Guy Morehouse at 200 yards picked as "Target of Month"... first performance of new smokeless cartridge

BRIDGEPORT, Conn.—Newest contribution to small bore shooting is Palma Kleanbore—smokeless .22 ammunition of match accuracy made by Remington. Last month, skeptical Guy Morehouse of the Poughkeepsie (N. Y.) Rifle Club went down on the 200 yd. range with Capt. Jim Noxon to give it a trial, scored a 199 x 200, then 198 x 200, then 199 x 200 for a total of 596 x 600, wrote the following to Frank Kahrs:—

"Personally, I have never had much faith in Kleanbore ammunition for target shooting... Today I tried this ammunition at 200 yds. at the P. R. C. outdoor range. Would like to go on record as saying that I have never used any ammunition anytime, any place, in-

doors or out, that will in any way compare with it at 200 yds. . . ."

ANSWER TO A SHOOTER'S PRAYER

"Palma Kleanbore" is what rifle-men, gun editors and the rest of the shooting clan have been clamoring for... an ammunition that would make gun-cleaning unnecessary. But they wanted an ammunition that would shoot alongside the most accurate Lesmok cartridge. Remington now offers that ammunition! Today's big question:—"Will the new Palma Kleanbore chase Lesmok cartridges off the map?" Answer:—Remington doesn't know, eagerly awaits developments, knows Palma Kleanbore is sensationally accurate, invites you to try it!

LATE FLASHES TO RIFLE NEWS

CHARLIE HAMBY SETS NEW SWISS MATCH MARK

ST. PETERSBURG, FLA., March 7—The Midwinter Small Bore Championships closed here today after five days of strenuous competition. Charlie Hamby of Atlanta, Ga., shooting Palma Match, set a new 200 yard record on the decimal target with 99 consecutive bull's-eyes.

MODEL 37, "PALMA MATCH" and "PALMA KLEANBORE" GO TO TOWN

ST. PETERSBURG, FLA., March 7—Ned Moor, of Detroit, was runner up in both Southeastern and Midwinter Championship aggregates shooting a Model 37 Rangemaster and Palma Match.

See your May "RIFLE NEWS" for complete details!

SAM BOND WINS MID-WEST TITLE

Ohio rifleman shoots Kleanbore to break 3-position record with score of 292

FORT HAYES, Columbus, O.—Not extinct are rifleman who can stand on their hind legs and shoot, says Sam Bond of New Philadelphia, O. He won the 16th Annual Columbus Trophy Match (3-position) by scoring 292 at 50 feet—one point better than the record for the match set in 1936. Adding a 299 x 300 to this (prone) with Palma Match he then set a winning score of 591 to take the coveted Mid-West Championship.

Sam wasn't the only Remington

user who did well in these matches. Among the Kleanbore and Kleankote shooters we find A. J. Burtscher, who took the Offhand Match and the Metallic Re-entry; Dan Burr, runner-up in the Offhand; A. R. Smith, winner of the "Old Boys" match; and Officer Glenn Hoven, who is the new Mid-West Pistol Champion. H. H. Jacobs, shooting Palma Match, was runner-up in the Tewes Trophy Match. Total it all up and it looks like a Remington field-day!

PALMA MATCH, KLEANBORE and KLEANKOTE are registered trade marks of REMINGTON ARMS COMPANY, Inc.

Flintlock Sporting Guns of the Days of Joseph Manton

By W. KEITH NEAL

NOT SINCE the days of its use—more than a hundred years ago, has the flint-lock gun aroused so much interest. It is being sought after by the collector and student of firearms more than ever before. The guns by the old masters hold secrets of boring that were jealously guarded by the individual makers in their day, and many of the secrets died with the inventors. Today it is possible to rediscover some of these secrets, from the fine weapons that have been preserved to tell their tale.

The shooting man recognizes in the flint gun the legitimate forerunner of his hammerless ejector. But he sees further, for was it not the arm with which his ancestors fought their way to independence. Or that was carried in more peaceful pursuits when they hunted their game on mountain, marsh, or plain?

The sportsman, if he is fortunate enough to own a good flint gun, has a possession to be proud of; a weapon well worthy of a place of honour in his gun rack. But there are many keen shooters who go further than this. They try to acquire a really sound double or single flint gun, and with it the necessary equipment in the shape of powder flask, shot pouch, and wad punch. But this is not easy, and if a gun by such old masters as Joseph or John Manton, Henry Nock, or William Smith is the ultimate goal, the difficulty is greater still.

There is an increasing number of sportsmen in both England and America who take a keen delight in shooting with a flint gun, and trying to recapture the feelings of their ancestors in the classic days of shooting; when for example Colonel Hawker killed his fifty brace of partridges on the stubbles around Longparish, sometimes picking three birds out of one covey with a right and left from his favourite Joe Manton.

The flint gun can be used for Skeet, and if any shooter is anxious to correct a tendency to shoot behind, I recommend flint-gun shooting as a certain cure—when he picks up his breechloader again he will see the difference, and the improvement.

Of course it takes a good deal of practice to use a flint-gun successfully, and a considerable amount of knowledge of the actual gun itself. The charm of having to work out the pet load for a certain

gun, the way to set the flint to give the best results, the most suitable wadding, powder, and shot, is all lost in these modern days of factory-loaded smokeless cartridges and breech-loading guns. Every flint-gun was different: it had a character of its own and, like a horse, had to be mastered! Yet surely it was all these things that engendered such a keen interest in those days. It is a well-known fact that, whatever the sport, once it becomes too cut and dried, and too easy, it loses very much of its charm.

Now the reason why it is so hard to acquire a really fine flint sporting gun is due to the fact that the number that have survived intact is not enough to go around. I say survived, because quite 75% of the best guns were converted to percussion. Those guns cost up to sixty guineas apiece, and could be converted for about two guineas; and it is really surprising that there are any left in their original state. However, thanks to the sentiment of some of the sportsmen, a few were spared and have been preserved.

The gun-makers were of course the first to convert their own stocks of flint-guns to the new percussion system, which was often done so thoroughly, with new breech plugs and remade locks, that only an expert can tell that they were ever flintlocks.

The number of genuine Joseph Manton flint-guns that have survived is very few indeed. The writer, who is the owner of the largest collection of sporting guns in the country [England] has only one specimen, despite the fact that he has searched all over England, and in Scotland and Ireland too, for the last ten years. Specimens have been found in museums and privately owned collections, but it is seldom that they come on the market. On the other hand, there are many very good specimens of converted Joseph Manton guns still to be found, and occasionally one of the rare tube-lock weapons. There are also a fair number of guns bearing the name and marks of Joseph Manton which are clever copies of the great artist's work, but were never made—or even seen—by him. These are very often flintlocks—so the keen collector should beware. Let it be remembered, too, that some of them are contemporary copies made in Birmingham or the Conti-

nent, to be sold in the market towns to unsuspecting wealthy farmers. These guns bear the stamp of age, and are not easy to detect. Then again there are a number of Joseph Manton guns that have been put back from percussion to their original state of flintlock for the benefit of the modern collector. These restored weapons lose a good deal of their charm and value in the processes of reversion, but are certainly better than nothing and are worth collecting until such time as originals can be found to take their places.

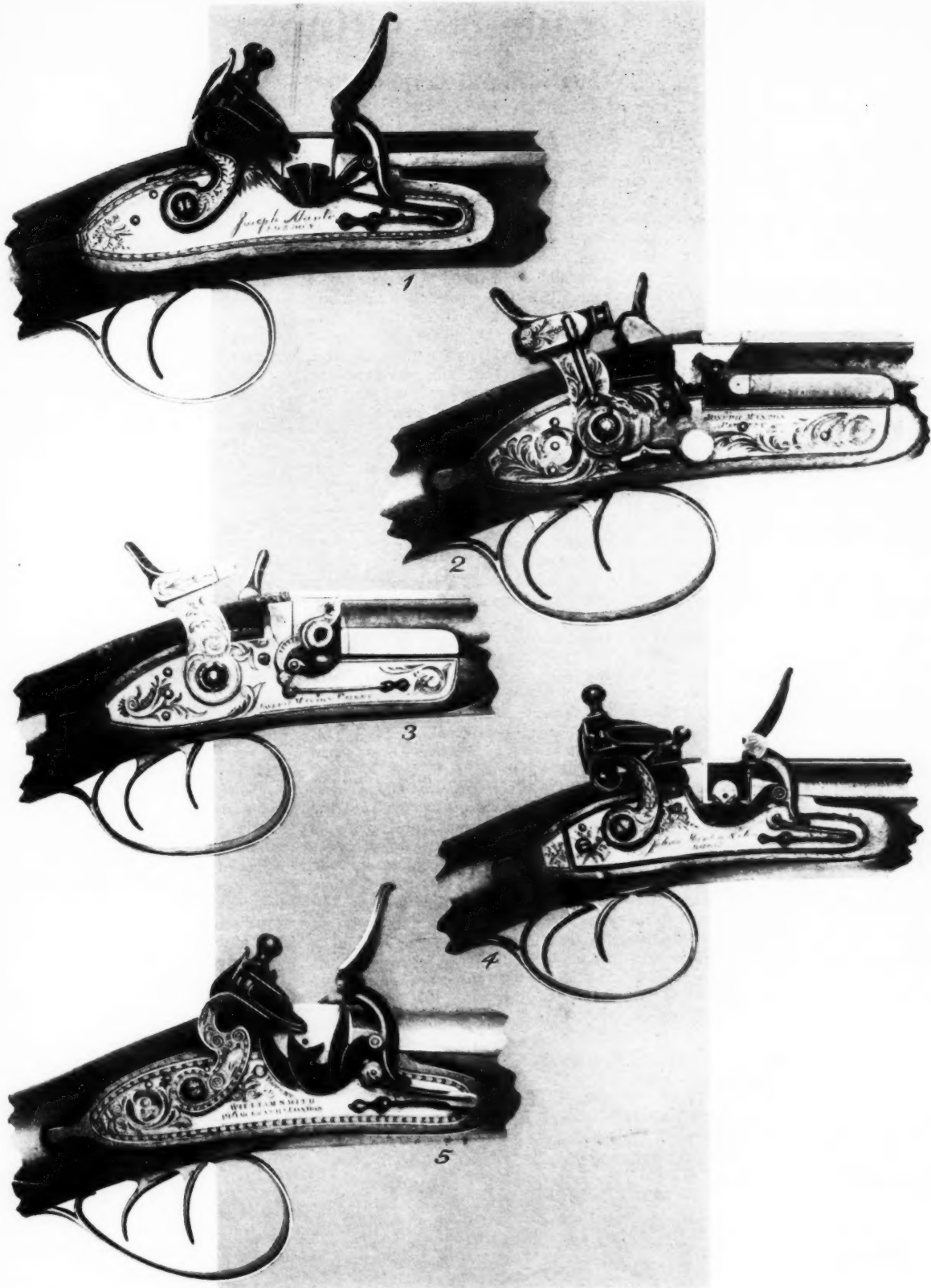
Worn-out or broken-down specimens are of course to be met with, and though they may be perfectly genuine they are of very little value and do not in the least satisfy the discriminating collector. Condition is very important, particularly if the gun is to be used.

In order to help the collector to form a correct opinion concerning a Joseph Manton gun, I am giving a few illustrations of genuine untouched guns from my collection, and mentioning the characteristic points that one should look for.

Figure 1 is of a single-barrel flintlock of 15 gauge, with a 31½-inch barrel. It is numbered 5321 on the trigger guard, which establishes its date as somewhere between 1809 and 1810. It is possible to date all Joe Manton guns fairly accurately from their numbers. This I do by computation, having notes of a number of definitely known dated pieces. Colonel Hawker's Diary supplies several valuable notes, as he gives numbers and dates of all his new guns.

One way of detecting a fake is to see if its number corresponds with the style and period of the gun. Sometimes forgeries have no number, which gives them away immediately; or else they are numbered in the wrong place. Usually Joseph Manton engraved the number on the trigger guard and also on the inside top left corner of the lock, and again on the barrel between the proof marks. Joseph Manton guns always had London forged and proved barrels: guns with Birmingham Proof barrels may be put down as not having been made by Joseph Manton. Again, his barrels were nearly all forged by Charles Lancaster or William or Tom Fullerd, and consequently they will in most cases bear the initials C. L., W. F.,

(Continued on page 29)



Grade Shooting

By M. J. PATTERSON

IN THE drawing, opposite page, imagine a rifleman at point M, shooting at golf balls just 100 yards from the muzzle of his rifle. If he is shooting horizontally at the ball at B, the average result of many tests gives 14 as the number of the micrometer division at which the Fecker sight of my Hornet rifle must be set above its marked zero in order to make a hit. We shall assume that this is an average day, and that the figure 14 is correct.

Each division on this sight is equivalent to $\frac{1}{2}$ -inch at 100 yards. Of these 14 divisions, 3.876 are required to bring the sight up to the true zero position ($E_0=3.876$). 3.22 divisions are required to compensate for (H) height of fixed point in sight line above center of bore line ($H=1.61''$). The remaining 6.904 divisions are required to compensate for the drop (D) of the bullet below the bore line in the time required for a flight of 100 yards. Therefore, $D=3.452$ inches. Now, with sight set at 14, and still facing toward B, let the rifleman shoot at the ball at A, 100 yards vertically above him. He will overshoot by 3.452 inches, because the drop, which is always vertically downward, is now in line with the bore, and no drop compensation is required. To correct, the sight should be set at $14-6.904=7.096$ divisions elevation.

Is it not evident that if, as the rifle was swung upward, shots had been made at every 10° of elevation, at golf balls always exactly 100 yards from the muzzle, the error would always be over, and starting with zero at B, would increase to a maximum at A?

Now, starting from the horizontal position at B, drop the rifle downward 10° at a time, still shooting at golf balls 100 yards from the muzzle. At A, the error will obviously be 3.452", and over. Again it is evident that, as the rifle is depressed, the error will always be over, and will increase

from zero at B to a maximum at A. In the figure we have determined points on the trajectory curve at a distance D ($1-\cos Y_1$) from the base line. D Sin Y_1 short of the mark for upward shooting, and D Sin Y_1 beyond the mark for downward shooting. The distance between the base line and the curve, at the point where the curve actually passes the mark, will vary but infinitesimally. The Drop at any range being D, and the angle above or below horizontal being Y_1 , it is readily seen that if we use the sighting which would be correct for the same horizontal range, we will over-shoot, and the error will be D ($1-\cos Y_1$) inches.

For rim-fire ammunition, such as high-speed I. r. or W. R. F., Drop, and therefore error and correction for same, are rather more than three times as great as for Hornet ammunition. One consoling thought is that for small values of Y_1 the error is very small.

One would hardly think of building a rifle range on ground with a 10% grade, which would mean that at the 100-yard target the ground would be 30 feet higher (or lower) than at the shooting stand. But for this grade, $Y_1=5^\circ-43'$, $\cos Y_1=.995$, $1-\cos Y_1=.005$ for Hornet at 100 yards, the error would be $.005 \times 3.452 = .017$ inch. For Win-WRF-SS-HP-ULB at 200 yards it is 53 inches. Error would be $.005 \times 53 = .265$ inch.

For practicable ranges, at any angle up or down, terminal velocity will be very slightly different from that for the same horizontal range. It is easy to get an exaggerated idea of the effect of gravity upon the velocity of a bullet, or upon the time of flight, when shooting up or down. In the approximately $\frac{1}{4}$ of a second required for the 100-yard horizontal flight of a Hornet bullet, the bullet would, if pointed upward, go 100 yards—3.452 inches, and if pointed downward, 100 yards+3.452 inches.

Shot vertically upward, ammunition with an m.v. of 2500 would be but 16 feet short of this distance at the end of the first second, if gravity were the only retarding force.

I have amused myself with this problem: If we had a vertical standpipe from which air had been removed, how high would it need to be not to interfere with the upward flight of a Hornet bullet?

Assuming muzzle velocity is 2478, as per my table, we have the following:

Loss of velocity will be 32.2 feet per second;

Time of upward flight will be $\frac{2478}{32.2} = 77$ seconds;

Average speed will be .1239 feet per second;

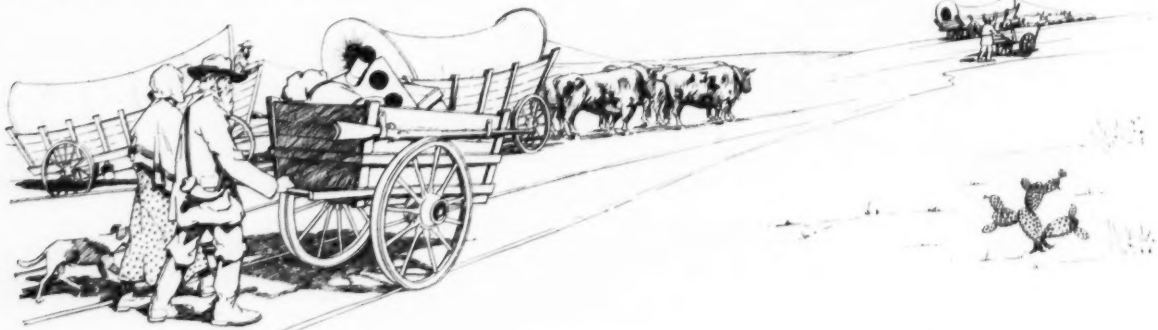
Height attained will be $77 \times .1239 = 9.5403$ feet, = about 19 miles;

Time of round trip will be 154 seconds = 2 minutes 34 seconds. Just how high this bullet would rise in air, I do not know how to compute. From the loss in velocity up to 300 or 400 yards at sea level I would conjecture that the limit would probably be less than a mile.

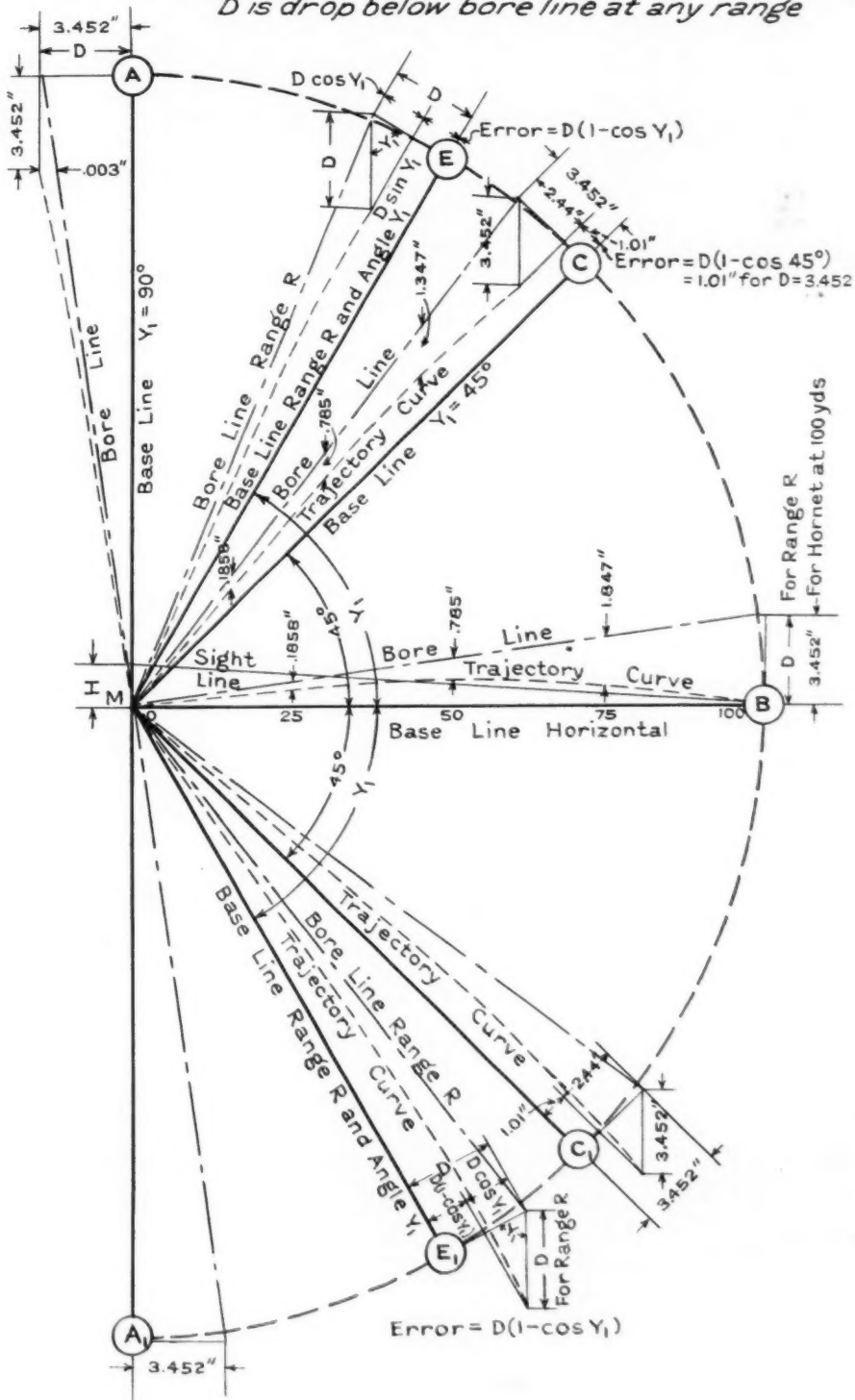
Perhaps a quotation from another article will help to a clearer understanding of the drawing:

"Gravity is a vertical force. As I conceive it, if a bullet has been started on its way, in any direction, at a speed sufficient to carry it a certain distance, against air resistance, in a certain interval of time, at the end of this time it will be vertically below the point which it would otherwise have reached, by the amount (D) which gravity will have pulled it down in this interval of time."

The amounts .1858" — .785" etc., shown in the drawing are the drops below bore line for Hornet ammunition, as determined by test for the ranges indicated.



Grade Shooting and Error From Same
If Sighting Is Same As Required For Same
Horizontal Distance
Special Figures Given For Hornet Ammunition At 100 Yds.
D is drop below bore line at any range





Deer target as drawn from the running-deer pattern seen at back

West Coast Tries N.R.A. Deer Match

By F. C. NESS

IN THE article "A Hunter's Viewpoint", published in the March issue of this magazine, the practicability of novelty matches was discussed. It was brought out that no greater frequency than once a month is feasible for such matches, because lack of uniformity in conditions precludes standardization, and narrows novelty shoots to a very restricted or localized interest. The very variety which adds zest to an occasional novelty match makes it impractical as a standard competition on a national or even a statewide scale. Most running-deer matches, while seasonally popular in many sections, are in this same category because conditions cannot be practically standardized.

As a solution to this situation I wish to point back to "A Practical Match for Deer Rifles" as proposed in the December issue of this magazine. While, primarily, this was developed by our Technical Division as a practical testing course for deer rifles, it was so designed as to be universally adapted for

any outdoor shooting club or any outdoor range, and regardless of local availability of mechanical equipment. Furthermore, our deer-rifle match happens to be one practical novelty match which can be, and is, standardized. Essentially it is a standardized timed-fire and rapid-fire match on a natural-size vital-organ deer target, for any repeating rifle. Complete rules and conditions were published in the December issue, together with an illustration of the vital-organ target, drawn to scale.

As yet no one is printing these vital-organ targets, as the expense and limited volume would make this unprofitable. However, they can be easily copied from

the scale drawing published herewith, and readily reproduced from tracing cloth by blue printing or brown printing. The brown color would be preferable as being more natural. Some clubs are already doing this, and they use the natural-size blueprints on their running-deer targets. It has been suggested that the various scoring areas be numbered with single digits (1, 11, 111, 1111, 11111 and 111111) so that the prints can be reversed and applied to both sides of a deer target, or to either a left-facing or a right-facing target.

Other suggestions which also will be adopted in the standard vital-organ scoring areas are as follows: Carry the edge of the 1111-area in the neck directly to the eye and thus eliminate the present loop in front of the eye. Along the diaphragm or vertical division line draw two parallel lines an inch from the present line and leave this 2-inch strip blank as a non-scoring area. Increase the heart-area score from "5" to "111111".

Offhand at 200 yards



Reduce the score of the forward portion of the paunch area from "3" to "11" and the remainder of this area to "1". Reduce the score of the spine area behind the diaphragm to "111". (See the scale drawing of the revised vital-organ scoring area published herewith.) This vital-organ scoring area represents the entire standardized target, and is all that is required

for faithful reproduction, as it can be used on any animal or conventional background, or by itself, for standard match purposes.

There have been no changes in the conditions and rules of the match except those affected by the changed scoring values. These minor changes are confined to the very first paragraph of the rules and regulations, which follow in full:

200-Yard National Deer Match

Target—Natural-size outline of a deer's vital organs, as per accompanying sketch, in any solid color of neutral shade such

as tan, brown, gray, or olive drab. Heart scores 6 points. Brain and spine as far back as diaphragm to score 5 points. Balance of spine 3 points. Chest cavity, and area adjacent to brain and neck-spine, to score 4 points. Outlined paunch area to score 1 and 2 points. Shots which fail to touch any of the outlined vital areas as indicated fail to score.

Rifle—Any repeating rifle with magazine holding five or more cartridges suitable for deer-killing. Minimum size: .220 Swift or .22-4000 Sedgley. Minimum power: .25-35 or .25 Remington.

rying position, and with the hammer at half-cock or safety "ON" until the Time Keeper gives the command "Fire!" If the safety is inoperative or intentionally left "OFF," the chamber must be empty and the action open until the signal to fire is given by the Time Keeper. So-called "grapevine," wrapped, or hasty sling may be used in any stage, but the strap must hang free and remain untouched until the Time Keeper gives the command to fire.

Time—Time for each stage begins at the signal to fire, which is given by a single

Sights — Any scope, peep, or open sights.

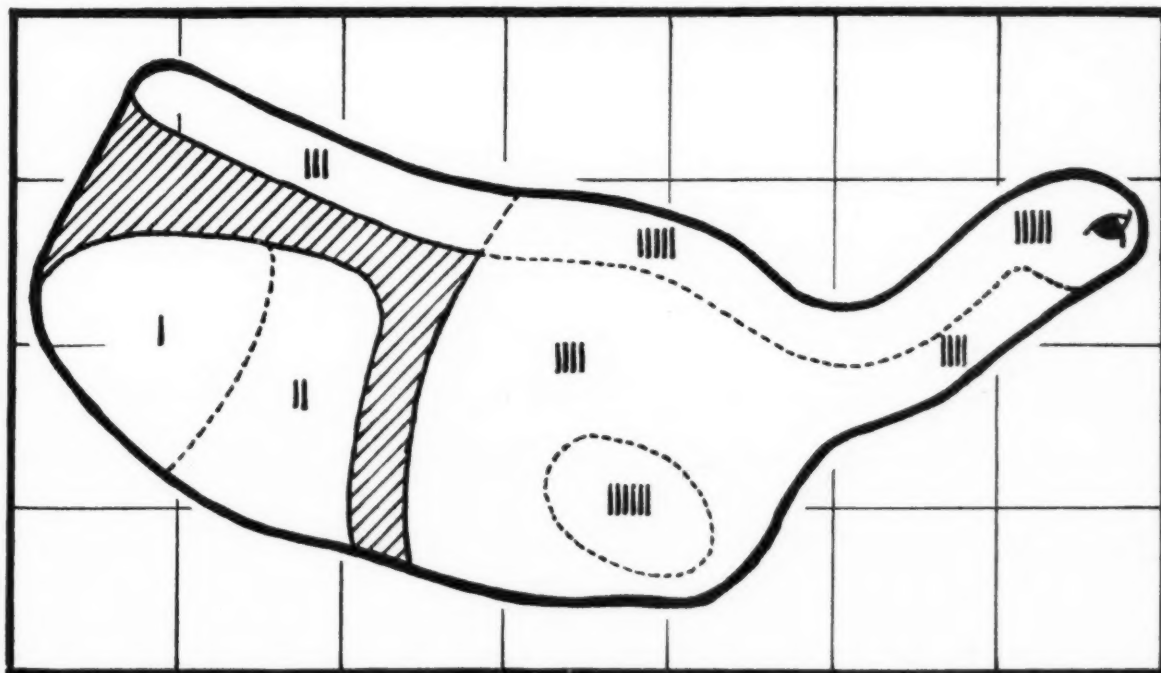
Ammunition—Any factory-loaded or Service ammunition, and any safe handloads of adequate power for deer-killing. This would exclude reduced loads and some midrange loads.

Position—Standing or walking for any stage. Rifle, with chamber loaded, must be held with butt below the elbow in carrying position, and with the hammer at



West Coast Rifle Club shooting on Marine Corps rifle range at La Jolla

Official scoring target for National Deer Match. Scoring area of deer is exactly 41 inches long



short blast of a whistle or by the word "Fire!" Time limit is called by the word "STOP!", or by a short blast of a whistle. Stop watches are required for competition: the second hand of an ordinary watch will do for practice. Any shots fired after the stop signal is given shall be recorded on the score sheet for later penalizing. For any shot fired after the time limit in any stage, a scoring hit of the highest value shall be marked off the target by the scorer.

Officials—1. An Executive Officer must be given the responsibility of insuring safe and uniform conduct of the match. He must devote his attention to the general scene, and cannot do any timing. 2. A Time Keeper must be appointed for uniform timing of each contestant. He must also score, and may alternate with the Judge. 3. A Judge and Scorer must check or back the Time Keeper with a second stop watch in postal competitions. He may alternate with the Time Keeper.

The Course—"A" Twenty shots in four stages. *First Stage*: 200 yards, 5 shots timed-fire, standing, in 40 seconds. *Second Stage*: 200 yards, 5 shots rapid-fire, sitting, in 30 seconds. (Position is standing until signal to fire is given.) *Third Stage*: 5 shots quick-fire, walking, 3 seconds per shot as follows: from 200 yards the shooter walks toward the target at the Time Keeper's command "Walk!" The Time Keeper and the Judge follow the shooter, and within 5 yards of the 200-yard firing line the Time Keeper gives the order to fire, whereupon the shooter throws off his safety or cocks his hammer, raises his rifle, and fires. This is repeated until 4 more shots have been similarly fired, from points within 5 yards of 175 yards, 150 yards, 125 yards, and 100 yards of the target. *Fourth Stage*: 100 yards, 5 shots rapid-fire, standing, in 15 seconds.

Protests—No extra shots or alibi runs for any reason. The Time Keeper's record and Judge's decision are final.

The Time Keeper and Judge now continue, alone, to the target, and score all hits in the prescribed vital areas. In local shoulder-to-shoulder competitions, or in practice, those bullet holes which are in the vital areas are pasted for the next contestant. In postal competitions a new target or a fresh scoring area is used for each contestant, and the bullet holes are left unpasted. Doubtful hits or close misses are not plugged, and the target is mailed "as is" to the competing club. This matter of convenient handling, and economy, is another advantage which comes from standardizing or making official only the actual scoring area of the proposed National Deer Match.

100-Yard National Deer Match

At 100 yards we get the benefit of smaller groups or finer inherent accuracy,

and greater confidence, as well as a 50% reduction in distance. Since we cannot reduce the time below practical limits, I would suggest that it be cut only in the first two stages, and the target reduced 50%. The first stage of Course "B" is then fired standing in 20 seconds at 100 yards. The second stage is fired standing in 15 seconds at 100 yards. The third stage is fired walking, between 100 yards and 50 yards, in 3 seconds per shot. The fourth stage is fired in 15 seconds at 50 yards.

To maintain uniform match conditions, the 100-yard match "B" should not be fired in competition with the standard 200-yard match "A", but should be confined to its own class of competition. In both classes the course is confined to its own class of competition. In both classes the course is confined to twenty shots, in order to conserve time and provide a complete course for each 20-round carton of deer cartridges. In the 100-yard match the caliber limitation is modified to allow as a minimum of killing power the .22 Hi-Power Savage, the .38-40, and the .44-40, which are impractical at 200 yards.

Match "C" for Other Rifles

For the .22 rim-fire, .22 Hornet, .25-20, .32-20, and all other cartridges which are too light to be considered as deer loads, I would propose a third match, open to any repeating rifle, pistol, and revolver. The half-size 100-yard deer target is used, and the 100-yard Course "B" is fired in the first two stages. In the third stage, or walk-up, the time is cut to 2 seconds per shot, and at the fourth stage—fired at 50 yards—the time is cut to 10 seconds. I found that these time limits could be met with a .30-'06-caliber bolt-action rifle, and would consider them reasonable for the lighter and faster arms for which they are intended.

The West Coast Rifle Club of San Diego, California, became very much interested in our proposed deer-rifle match, and on the last day of January this year they gave it a thorough trial in an organized match, following all the conditions as laid down in the December issue of this magazine. In this match they put up some nice scores for other clubs to shoot at, these being the very first scores to be officially recorded for the 200-yard National Deer Match. Ralph Steinhoff, Executive Officer of the Club, sent in his report on February 1, the day following the match. This report, in full, reads as follows:

"Our rifle club was very interested in "A Practical Match for Deer Rifles" and we decided to try it out.

"We drew up five silhouette deer according to the scale used by Mr. Ness, with the value markings the same, and pasted them on 6' x 6' targets. Thereby five men were able to shoot at once. We

were privileged to use the Marine Rifle Range at La Jolla and had all necessary equipment at our command as well as experienced Marines to pull and mark targets. All the timing was kept in the butts from the time the target started up.

"First stage—5 shots, time fire, standing at 200 yards. Rang telephone bell once and targets came into air for 40 seconds.

"Second stage—5 shots rapid fire standing to sitting in 30 seconds.

"Third stage—quick-fire walking. The telephone rang as they started off at the 200-yard line. Target came up for 3 seconds for 1 shot. The same procedure was pursued at 175, 150, 125 and 100 yards.

"Fourth and last stage—5 shots in 15 seconds at 100 yards.

"Then for an added note of interest we drew and cut 2 deer the same size (marked with the same values) out of masonite board, and ran them across the 100-yard butts by automobile, at about 25 miles per hour, as running-deer targets. Each man was allowed 6 shots as the deer was crossing.

"We gave prizes to both divisions, iron and glass sights, thinking that iron sights could not compete against the glass. However, the first three places were taken with iron sights.

"We shot the stationary course twice and the running-deer target once, making the possible score 230 points. Twenty-three men shot in approximately 3 hours and 30 minutes. The turnout would have been much greater if weather conditions had permitted.

"I will enclose a clipping from the San Diego Union, showing how our local newspaper cooperates with our club in advertising. (The newspaper item included a two-column reproduction of the scale drawing from the AMERICAN RIFLEMAN).

"We plan to run this shoot the 5th Sunday of every month and the Sunday before deer season opens in California.

"We would like to hold postal matches, or shoulder-to-shoulder competition with any other club.—Ralph Steinhoff, Executive Officer, West Coast Rifle Club, Route 2, Box 497, San Diego, California."

The West Coast Club cut a deer pattern out of tag board, and then made all the duplicates they required of masonite board for their running deer. For their stationary deer they made their duplicates by tracing their pattern on the backs of military "A" targets. The vital-organ areas for scoring were then drawn to scale on these deer targets for their match.

We are now making up on tracing cloth a master vital-organ scoring area in full size. This will be used in making experimental brown prints for the purpose of establishing a source of supply for clubs which may not care to make their own.

(For scores see page 28)

Intra-Club Matches

By RAY CARVER

OFTEN, in small clubs, keeping up enough interest to insure continued existence is a problem. True, there is usually a certain group of potential experts—young fellows who take real interest, but they face rather discouraging conditions when it comes to going up against men with the best of equipment, and years of experience behind them.

The various matches held throughout the country are decidedly interesting to attend, but they are also quite expensive for the young fellow just getting a good start in the game. And yet that very fellow needs competitive shooting; it seems to be the only way to overcome attacks of high blood pressure, St. Vitus dance, palpitation of the heart, and that stuffy, weak-kneed feeling which afflicts the less-experienced shooting addict when he first goes into a match against tough competition. This budding expert is apt to suffer considerable inferiority complex, too, when he sees the equipment some of the old-timers have, and the cool way in which they go about their job. Perhaps the young fellow has shot some pretty credible scores out in the cow-pasture, alone; but out there he wasn't hampered by rules, time, and that fear of making a poor showing. Yet he is aware that he has put out quite a sum of cash, and must place in some of the events or go back to the home town and face the gang, who seldom take kindly to alibis no matter how logical they may sound to the victim.

I have seen good fellows give up the game just because of such conditions. It may be that they were not sufficiently inoculated with the right "bug" to grin and take it; but the main trouble I believe lay in their having to go into a big match without proper preliminary training. And I believe that those same young fellows, if properly encouraged and guided, might still be shooting, and enjoying the game.

Our club—a small one—has had considerable difficulty along this line. There have been several matches held within reasonable distance, but it has been next to impossible to get the fellows to take part in them. Various reasons have been given, but it boils right down to this: those fellows are doubtful of being able to make a fair showing against the more experienced contestants, and they place more importance upon the winning of medals than upon going in for the fun of shooting. Winning medals and getting some publicity is part of the fun, of course, but it is only a small part.

It is the first plunge—the first competitive match, which scares away the young fellow. In fact it is often hard to get

even excellent shots to go, just because they know they lack match experience, and are afraid of showing their ignorance. Another thing they don't know, and that is the friendliness prevalent during those matches; the tolerance almost any of the old heads have regarding new shooters, and the real fun the latter will have if they go to shoot and learn, rather than just to win medals.

Our club decided to try giving some of these fellows a taste of competitive shooting. A course was adopted such as those usually found in the larger competitive matches. A moderate entrance fee was charged, and medals were given for first, second, and third places in each match. Strict shooting rules were laid down to make the match as nearly like the big matches as possible.

This being an intra-club shoot, each man knew about what to expect in the way of competition. And let me say right here that there was plenty of competition. The firing line was one place where "friendship ceased." It had a regular "match feeling." We all knew we would have to make every point count, and we all tried hard; too hard for the best results. Mistakes were made. One contestant threw the first two matches just because of using a brand of cartridges not perfectly suited to his rifle. Another shot five perfect tens on his first bull, when explicit instructions had been issued to fire only two shots on each target. Toward the end of the match a third man, shooting in the offhand position at 100 yards, grew careless because he considered his score too low to place (he was one of the first men to fire in the match), only to learn that he had placed third in the event, and might easily have taken first place. It is very doubtful that these men will ever make those same mistakes again, no matter what matches they attend.

Rivalry all through was good-natured but plenty strong. An aggregate of four rifle matches showed how close the race had become: only one point separated the top three men. After the rifle matches, a 25-yard pistol match was held. This, too, was close. First place had to be decided by counting low shot.

Everyone seemed to enjoy the match, and we plan to hold more of like nature. Seventeen medals were awarded, and of the eleven men shooting, eight won at least one medal each. We believe that we have increased interest in matches, and that our newer shooters will be much less apt to shun the larger events. They feel that they know the ropes to a certain extent; and it doesn't dampen the ardor of

a new shooter for him to win a few medals and get a little publicity in the local paper. In addition to all this, the books showed a little profit after all expenses had been paid.

How about it, you small clubs? It might go a long way toward pepping-up the organization to try one or more of these intra-club matches with entrance fees, medals, and all the rules of other competitive matches.

LET'S HAVE SOME OF THEM

MMR. LONGO'S article "No One Seems to Know" in the December *RIFLEMAN* touched upon some interesting matters.

Most of all I think, as he suggests, that the larger rim-fire cartridges should receive more attention, especially the .25 Stevens R. F. For hunting it was the best of the old rim-fire cartridges because of its power and accuracy, and by reason of its inside lubrication the cartridges could be carried loose in the pocket. There would seem to be no reason why this .25 R. F. could not be pepped up to modern standards.

When a boy I acquired a new Stevens Ideal 44 with heavy barrel chambered for the .32 Short and Long R. F. I found that the action of this rifle would force into the barrel the .32 Extra Long R. F. cartridge, and that this load gave far superior results to the two others. I have no authentic record of the groups made, as we did not take the target shooting seriously, but the cartridge shot well as I recall it, and I distinctly remember shooting the heads off some guinea fowl for a neighbor who could not catch them. This shooting was done from the back door of his house, to the top of the barn roof—some 40 or 50 yards. On another occasion, after we had fired on two targets—three shots each—my chum and I were disqualified from taking part in a neighborhood shoot where the others shot only .22's. This was at 35 yards, and this cartridge would get a chuck regularly at 100 yards or somewhat further. We need a cartridge like this today, in modern garb.

When this .32 Extra Long cartridge was forced into the chamber of the rifle, the entire bullet and the forward part of the case for perhaps 1/16-inch entered the rifling.

I should like to add to Mr. Longo's list, that "No One Seems to Know" why, with all the new models of firearms that have sprouted up like weeds, no one has brought out a moderate-priced two-barrel combination rifle and shotgun. A 12 or 20-gauge in combination with the .22 Hornet or .25 R. F. would in my opinion be an upland hunting arm and pest gun de luxe.

JOSEPH B. GABLE.

WEST COAST SCORES, ETC.

(Continued from page 26)

Name	Gun	Sights	First time over course	Second time over course	Running deer	Total
Willoughby, Julius	Springfield	Iron				
		Army Issue	69	62	18	149
Adams, Heston	Springfield	Iron				
		48 Receiver	68	66	7	141
Rose, Kenneth	54 Winchester	Iron				
		Lyman 48	56	56	16	128
Diant, Paul	Spr. Sporter	Noske 4X	70	53	0	123
Manning, Phil	Spr. Sporter	Iron				
		Lyman 48	51	65	3	119
Haynes, Carl	Springfield	Pacific rear	52	50	4	106
Sloan, Paul	Spr. Sporter	Iron				
		Lyman 48	47	48	4	99
Davis	54 Winchester	Fecker 4X	44	42	5	91
Middlestead, Paul	Spr. Sporter	Noske 4X	23	58	9	90
Dietrich, Robert	Springfield	Iron				
		Lyman 48	52	33	14	79

(Note: Some of the open iron sights and smaller-caliber rifles had total scores as low as 32.)

USE OF THE STADIA IN HUNTING

(Continued from page 11)

the intercept between the center and outside wire will be found particularly useful at ranges between 200 yards and 500 yards.

The author has a Lyman 10X Target-spot telescope fitted to a Winchester Model 54, .30-'06 rifle, and it also can be used on his Model 52 Winchester rifle. This scope has a focal length of 11.46 inches and came from the makers with the standard single wires crossing each other at right angles. This telescope was purchased in November, 1934, and in February, 1935, the author concluded to equip the scope with stadia wires. The factory was asked for a quotation for placing the two additional wires, but replied it could not undertake the work. Inquiry next was made of three firms manufacturing scientific or surveying instruments, but the charges were deemed too high. Finally the author wrote to an advertiser in *THE AMERICAN RIFLEMAN*, Mr. A. M. Reynolds, 434 Anthony Street, Schenectady, N. Y., who inserted the extra wires in a very satisfactory manner and at a reasonable cost. It may be mentioned that the additional wires clearly showed the spherical aberration present in the lens. However, this aberration does not interfere with the proper functioning of the stadia wires.

Wires are usually of metal but the fine strands found in the cocoon of the common black spider serve very well. These cocoons are generally plentiful in the fall in most localities, particularly in fence corners. These may be fastened in place by a drop of shellac, and will give excellent service. When ordering additional crosswires the man who puts them in place should be instructed to engrave lines on the frame of the reticule where they are to be placed and thus avoid having to

recalibrate the readings each time the wires are renewed. It also should be noted that the magnifying power of the telescope does not affect the reading on the rod, for both the image of the animal and the crosswires are enlarged to the same extent.

It is of course obvious that a stadia rod cannot be used in the hunting field, because the quarry is not going to remain until some one can step forward to get his range. Therefore, in lieu of the intercept on a rod we must use the known or estimated dimensions of the animal sought, or of some object that is at about the same range as the quarry. The object may be a fence of approximately known height; a stump, which usually will be found to be about two feet in height; a domestic animal, such as a horse or cow which may happen to be in the vicinity, or any other object whose height may be known approximately. Let us suppose that the quarry is a black bear which stands 26" (2.2 feet) at the shoulder. If the image of this animal, as seen in the telescope, is just included between the two outside crosswires, then its distance is approximately 220 feet or 73 yards. If it is just covered between the center and outside wire, the range would be 146 yards. If the full height of the animal cannot be seen it is generally possible to see its entire length. It is then easy to turn the rifle on its side and observe the portion of the length included between the wires. For example, let us suppose the bear just mentioned is standing in a position where its full height cannot be seen because of intervening grass, weeds, small brush, etc. We then may turn the rifle so that the flat side of the stock is in a horizontal plane. Let us suppose the animal is about 38" (3.2 feet) long, and that the crosswires now intercept what the hunter estimates is two-thirds the length of its body, or about 26 inches.

The distance to the bear then would be approximately 2.2 feet multiplied by 100, or 220 feet, which is equivalent to about 73 yards.

In the following table is shown the approximate average height and length from tip of nose to root of tail of various wild animals which are commonly hunted in the United States.

Animal	Average Height* (Inches)	Average Length** (Inches)
Antelope	36	52
Bear; Black	25½	63½
" ; Grizzly	39	75
" ; Kodiak	52	96
Cow	47	90
Deer; White Tail	41	72
" ; Black Tail	39	66
Dog; Pointer	26	36
" ; Collie	23	34
Elk	68	102
Fox; Red	12	40
" ; Gray	11½	40
Ground Hog (sitting up)	18	24
Hog	18	42
Horse	60	110
Man	70	—
Moose	72	114
Mountain Lion	28	90
Raccoon	10	31½
Rocky Mountain Goat	34	47
Turkey	16	20

* At shoulder.

** Root of tail to end of nose when not extended.

Readers may correct this table to suit their individual needs as determined by the kinds and sizes of animals found in their own localities. This article is intended merely as suggestive of the possibilities of the stadia to the hunter of big game or for estimating inaccessible objects, such as the width of a river, distance to a house, mountain peak, railway line, etc. The dimensions of many other animals may be obtained from their scale pictures found in Webster's International dictionary or in other books devoted to natural history. A man may be approximately the same distance away as the quarry, although in a different direction. If the hunter has the time he may train his telescope on the man, note the intercept, and then set his sights again on the quarry.

For inclined sights (as where the game is on the side of a mountain) no correction need be applied provided the line of sight is not inclined more than 10° from the horizontal. If the inclination is 15° the estimated distance should be shortened by about 3 per cent and 6 per cent if the inclination reaches 20 degrees.

THE AMERICAN RIFLEMAN

FLINTLOCK SPORTING GUNS OF THE DAYS OF JOSEPH MANTON

(Continued from page 20)

or T. F. stamped near the proof marks and number.

The earlier flint-guns have the stamp "Joseph Manton Patent" and the crown in gold punched into the breeches. The letters should be sharp and keen. From about 1805 onwards platinum was used instead of gold. In addition, the full name and address were written down the barrel, or center rib in the case of a double gun; and it should be remembered that his flint-guns were made at the Davies Street, Berkeley Square address—he left for Hanover Square just after he had begun making his first detonators and tube-lock guns.

The words "Joseph Manton Patent" and the serial number of the lock were usually engraved on the back of the pan cover also, the lock number in which case does not correspond with the number of the gun.

Figure 2 shows a very rare type of early double detonator. The locks are fitted with platinum-weighted gravitating stops which intercept the hammer when the gun is in a vertical position. This makes it safe during the loading operation. This gun is numbered 8012, which establishes its date as 1817. It was originally of the rare and little-known type of gun which Joe Manton invented in 1816: it was his first detonator, several years before the percussion cap was invented, and is described fully in the Patent Records for that date. The hammer had a detachable striker in the head. This striker was hollow and had a pellet of detonating compound in its base. When the hammer fell the fulminate was fired through the striker tube down the touch-hole. A quantity of spare strikers ready-primed were carried in place of the percussion caps which were to supersede them later. It was an ingenious but expensive system, and was easily alterable to percussion cap by substituting a solid striker for a hollow one and screwing a nipple into the touch hole. This gun is now fitted with detachable solid strikers and nipples, but could easily be fired by the old method by installing hollow strikers.

Joe Manton followed this invention with his tube lock patented in 1818, and Figure 3 shows a good double gun on this principle. It is numbered 8474, has 30-inch barrels of 17 gauge, bearing the initials C. L. underneath. The date is 1819.

It is noticeable that in his detonating guns the signature on the lock is invariably in block letters, whereas in the earlier flints the name is in script and the word LONDON in block letters. This change came when he was making his last few flints.

Figure 4 illustrates a magnificent double

10-gauge duck gun by Joseph Manton's half brother and rival, John Manton. A finer piece of workmanship could not be found, and no Joe Manton gun was ever made better. The writer has had many opportunities to compare the guns made by Joe and John Manton, and it is his considered opinion that there is nothing to choose between them. Joe Manton's was not such an old-established business as John Manton's, nor did it live as long, but it had the enormous advantage of Colonel Hawker's patronage and advertisement through his inimitable book on shooting, and in those days when advertisement was almost unknown this meant a tremendous lot.

Captain Lacy in his book "The Modern Shooter" published in 1842 gives several interesting facts about John Manton. It is the writer's intention to give later on a short history of John Manton, illustrating some of his best products.

Figure 5 is of a double 12-bore flint-gun of the finest quality, made by William Smith of Princes Street, Leicester Square, London; a maker Colonel Hawker spoke very highly of in his book. This gun has self-priming locks and is complete in every detail, in its original case with fittings. The latter include a perfect pair of spare locks fitted into separate compartments. The gun was made for a very famous Admiral of the British Fleet, and was presented to me by his grandson. It compares with the very best Joe Manton, and with it I recently killed two birds with one shot. It is the most treasured double flint-gun in my collection.

A WOODCHUCK REST

(Continued from page 9)

sticks, which would enable him to shoot from prone—with a row of the .45-120-550 Sharps cartridges on the ground in front of him. This old buffalo hunter showed me how to make such a pair of rest sticks, and I have them to this day.

However, I later learned from Dr. H. A. Baker of a woodchuck rest that he was then using. Basically it consisted of a hollow steel tube fitted with a sharp point for easy driving into the ground. This tube carried a sliding rest, which could be fastened at any height by a set screw. With the rest fastened at the top of the tube one had a good walking stick when tramping the fields. Doctor Baker also recommended this rest for providing a generous space between the barbed wires of an obstructing fence. By setting the point of the tube against one wire, catching the other wire on the sliding rest and moving the rest up the tube, then fastening it with the set screw, space for passing between the wires without catching the clothing was quickly afforded.

There is illustrated herewith a chuck rest that I made, and am now using. To

begin with, I obtained from the Consolidated Airplane Company of Buffalo, N. Y., a piece of aluminum-alloy tubing 30 inches long and 3/4-inch outside diameter, with walls .047 inch thick. This tubing has a tensile strength of 60,000 pounds to the square inch, yet the complete rest weighs only about three-quarters of a pound, and makes a good cane.

One end of the tube was threaded, and a knurled cap fitted, for a handle. A spike made from a 6-inch length of 3/16-inch drill rod was then attached to the other end. To fasten this spike a piece of 3/4-inch aluminum rod was drilled through to receive the drill rod, which was held friction-tight. This was then placed in the lathe and a shoulder turned on the piece of aluminum to fit the inside of the tubing. After assembling, a small pin was put through tubing, aluminum, and drill rod, making a strong joint. The end of the spike was then ground to a point, and hardened.

The adjustable slide to support the rifle is made from a piece of black walnut 1 1/2 x 1 3/4 x 3 1/2 inches. A 3/4-inch hole is drilled through the block, and a saw-cut made part way through for clamping. The block is clamped in position by a 3/16 by 1 1/2-inch machine bolt with wing-nut. A V-notch is cut into the top of the block, and covered with a piece of 3/8-inch sponge rubber. "Metal X" was used to cement the rubber to the wood. The looped thong is for carrying the rest on the arm.

A woodchuck rest such as this can be used in both the prone and sitting positions. The sitting position is used when shooting uphill, or when grass or weeds are high. Colonel Whelen uses a rest of this kind. He takes the prone position, with sling, and lays the back of his hand against the rest.

My chuck rifles all have heavy barrels, and when using my rest prone I try to get as low as possible, resting the barrel near the muzzle on the rubber pad of the rest.

Ned Roberts has for a number of years used a chuck rest that was made by A. O. Niedner when he was in Malden, Massachusetts. This rest has a hook inside of the tube, which, when screwed into the top cap, can be used as a sort of gaff to pull a dead chuck out of the hole if necessary.

MEMOIRS OF A SECOND-RATER

(Continued from page 10)

With each shot I sank a little deeper into the mire. My left arm buried itself to the shoulder and wrist. My score book soiled so rapidly that I was unable to keep track of my shot group as it formed. There was dirt in my bolt, in my sights, in my breeches, in my eyes and ears. I erupted out of that crumbling grave with

a 42 for a score, and with murder in my heart.

Long ago I learned not to anticipate any idle periods in a country match. In addition to your own firing you will often be expected to pull your weight in the boat and assist in the conduct of the match. After a little experience you will move a long way off from the firing line when you finish a string. If you don't you will probably be requested to score some other competitor, and burn out your eyes by staring down the range all day. You'll be asked to lend a hand to run the firing line when you should be devoting your time to preparations to fire; or asked even to lend a hand in the pits.

If your complacency is upset or your concentration broken up by close-range kibitzers in the gallery, you have my sympathy. You will soon learn to disregard them or give up shooting in bush-league matches. Strangers in a match are particularly subject to this mild annoyance, especially if they happen to be going good. The local spectators seem drawn irresistibly to your vicinity, and comment freely and audibly upon your position, equipment, and score. Get used to this—or give up shooting.

Avail yourself of every opportunity to fire in a country match. It may not be the surest way to learn to shoot, but I can't imagine a better one. Then, when you have acquired the ability to turn in consistent scores, in competition, and in rain, fog, dust, and wind, from good, bad, and indifferent firing points; when the matches are well organized and run on schedule and when their mismanagement drives you to within one short jump of the screaming mimis, while kibitzers audibly crowd close on your heels—then you are ready for Perry.

RESTORING MUZZLE-LOADER BARRELS

(Continued from page 17)

plished with a file while the steel is turned in a breast drill held in a vise, etc. After you have turned or filed the steel to the form shown at B, Figure 4, and to a size that fits your gun, you are ready to file in the flutes. First make cuts as C, equally spaced. Then extend these cuts from the outer end to the shank. Do not end them at the shank, but carry them on past it, as shown. When the flutes are all cut, heat the cherry to a bright red, and quench in water. Draw the shank to a blue, and the cutting part to a straw color.

I like a bullet to be bore diameter for barrels with lands and grooves about equal in width. Where the lands are very narrow I would recommend a ball larger than bore diameter—but never full groove

diameter. In either case the patching material should be heavy enough to make the ball gas-tight.

The charge of powder will vary, but an amount that will just cover a necked ball in the palm of your hand will be close enough to begin with. I prefer Kings Semi-Smokeless FFFg. With this powder you can tamp the ball, whereas I find that tamping the ball with black powder will, in some guns, destroy accuracy.

To load a muzzle-loader I pour in the charge of powder, and tap the breech at the drum to settle the powder and cause it to enter the drum. Then I put the barrel under my left arm, with the butt-stock back of my left heel. This leaves both hands free. I wet a corner of patching material with saliva, and lay it over the muzzle. Then I place the ball with the cut-off either straight up or straight down, and press it into the bore with my thumb. This does not fully seat the ball in the bore, but it seats it far enough to hold it while I place the bullet-seater on it, and give it the final seating with a smart blow with the heel of my hand (Figure 5). I always strike it hard enough to seat it the first time, as more than one blow will flatten it. I now gather up the patching with my left hand, and cut it off with a sharp knife. I cut close, but not so close as to cut the barrel, as this will only dull the knife. I now grasp the ramrod in both hands, close to the thick end, set it on the ball, and with a downward pull enter the ball about one foot; then, hand-over-hand, seat the ball on the powder. If it is Semi-Smokeless powder I raise the ramrod about ten inches, and, with the wrist only, throw it against the ball three times. The third time the rod bounces a couple of inches. I then lay the gun across my left arm, and with my right thumb raise the hammer far enough to place the cap on the tube.

The loading completed, I set the triggers, raise the muzzle high, and set the stock against my shoulder. As I lower the muzzle I raise the hammer with the thumb or index finger. This stance I copied from Mr. Frank Devine, a careful gun-handler and a fine shot despite his seventy-odd years.

A final warning: Never use smokeless powder in a muzzle-loader. It will blow the gun to pieces—and each piece may bite you severely!

HOMESTEADS AND GUNS

(Continued from page 14)

a mile from home, in the wagon trail in the deep pine needles. The young settler was hurrying along in the deep dusk, to reach his cabin before total darkness should set in, and he walked right onto the pig. The pig said "Woof! Woof!"

and the settler thought "Bear!" and his legs started running. He could never tell how far he ran back down the road, but he lost the road on a curve, and ran into a big fir tree, which stopped him. His mind had a chance to work then, and he realized that it was only Will's pig that he had stepped on!

Another settler—a big, strong man—liked a light-weight rifle for hunting, and had a .25-35 Model '94 Winchester carbine, with half-magazine. He had good Lyman sights on it. He was hiking along with some other fellows one day on a little hunting trip, when the dog put a gray squirrel up a big pine tree. He spied the squirrel against the sky, but over a hundred yards away; however, he took a rest, and fired. The squirrel fell, creased across the forehead to a depth of about half the diameter of the bullet. The joker of the crowd picked up the squirrel, looked at the scratch, and turned to the boys, saying: "Joe says he creased this one quite a bit deeper than he usually does at that distance!"

As we did not have autos then to take us to places of amusement, quite often we would gang-up at somebody's place on Sunday to have some fun, and we usually took our guns along. On one such occasion quite a group of young fellows had gathered at my father's homestead. One fellow leaned a good .44-40 Model '92 Winchester against the cabin, and later my brother came along, picked up the rifle, and jokingly said: "I wonder what kind of a man belongs to this darned old coal burner." The owner of the rifle promptly arose and forcibly replied that that rifle was no "old coal burner," but a mighty good gun; and that with it he could bust a gray squirrel's head no matter how high up in a pine the squirrel might be. This interested me, so I hung a target on our shooting stump 60 yards away, and asked for a demonstration. The .44-40 man lay down flat, rested the rifle muzzle over a block of wood, and fired. I noticed that his rest was very insecure, and wobbly, though he did not know it; and he missed the 3-inch black spot by a good foot. Oh boy did we laugh! But to this day Wilbur probably wonders why that rifle of his let him down and humiliated him so in that crowd!

But few settlers ever really engaged in target-shooting. Just a few shots at a mark to line-up the sights a little before going hunting. Their favorite form of "mark-shooting" was at some rock on a hillside across a canyon, from 200 to 500 yards away.

These are some of the shooting experiences back in homesteading days, as I remember them. For it is the fun and the jokes that I remember best.

Manhattan's Metropolitan

By AL BLANCO

SIXTEEN years ago the first indoor Metropolitan Championship was held. My recollection is that Len Miller and a few other old timers were responsible, but I am going to make that claim anyway so that if I am wrong it will bring out the information we need. Be that as it may, we are sure of one thing, that this was the Sixteenth Annual Match of the Metropolitan Rifle League.

These matches are shot at the 27th Division Train, Q. M. C. Armory in Brooklyn, N. Y., if you can find the Armory. When you have finally arrived you find close to 250 shooters and spectators packed into a room that was originally built to hold 10; the air is bad, it is cold and damp, but the social atmosphere is 100 per cent and nobody pays any attention to anything else. More dope and shooting talk is spilled here than anywhere in the country, and if you are not acquainted with everybody you will recognize some of the prominent men of the East anyway.

Please refer to the list of winners, providing the editor does not use the blue pencil too freely, and you will find a lot of familiar names. Snugly ensconced in first place, both in the preliminary fired on February 7th and the championship fired on the 21st, is the name of A. E. Sharp. Now Al Sharp is a member of the Outers Club of Mount Vernon, N. Y., and while not a new man so to speak, is not a veteran either. He is young, clean cut and good looking, in fact reminds me of Robert Taylor. Well, anyhow Al went right out there and did his stuff, and when you know that this little job consisted of firing over three Sundays, 250 shots indoors at 100 yards on artificially lighted targets with .22 long rifle match rifle and telescope sights, and that he dropped one point, which means going out of the 10-ring just once for a total of 2499 out of a possible 2500, then it will dawn on you that this young man has done something beyond the ordinary. No matter what you call it I call it a record because I have no recollection of any indoor performance under similar conditions matching this.

During the entire shoot I think there were something like nine 10-X possibles, three of which were made by Sharp, one each by Lambert, Bockman, Ken Clark, Sam Moore, Bob Gadd and Frank Frohm. Incidentally, I note that Bob Gadd won the hat donated annually by Len Miller.

A few of the high spots of this match might well fit in here. For instance, in the Preliminary Match about 12,000 shots

were fired all in one day, and there were only 12 firing points as I remember it available, and practically everybody shot 15 complete targets of 10 shots each. The statistician reports 6,349 shots were fired for record in the 50-Shot Championship, the 6,350th shot being donated by Jack Hession on another target.

But to get back to the winners. America's No. 1 Rifleman, William P. Schweitzer of Hillside, N. J. and the Fenmore Rifle Club shot in both the preliminary and the championship, and he gave Al Sharp a pretty race, being right there with him all the time, getting second in the preliminary, but being outranked I think by one X. In the Metropolitan he got fourth place with thirty-four X's, while the winner, Al, was getting thirty-seven X's. Bill certainly justified himself as America's No. 1 Rifleman by staying right there with this new sensation in the smallbore shooting world.

In second place appears the name of K. Clark Ken Clark of Bridgeport, and we knew him when he stood behind a machine rest testing .22 ammunition at the Remington Plant, so he knows something about ammunition and what the average or reasonable expectancy is. He registered thirty-six X's, one behind the winner. In third place there is a name that is not duplicated often, we refer to Clarence Held of Allentown, Pa., and Clarence did a swell job by just nosing Bill Schweitzer out for third place.

Well, there are too many who made fine scores to talk about in this limited space, but when you get the idea that a 499X500 got 17th place with a 495, and old Larry Corsi in 60th place with a 496 (we do not mean old in the sense of years, but rather in experience). There was Jerry Hilborn in 55th place with a 496, while Jimmy, his wife, was in 46th place with a 497. Incidentally, every time a 10-X possible was registered a \$5.00 prize was awarded. \$45.00 was given out in this manner.

Another H. L. happened you might call it a high light or hard luck but our old friend Sam Moore ran into this in the championship. He scored 499, but he had thirty-seven X's, in other words he got twelfth place, whereas had he gone clean with thirty-seven X's he would have tied the winner.

I can't close my little story of this year's Metropolitan without telling you that you will always find behind the desk, standing guard over everything, that great and beloved character now past the allotted three score and ten, but still going strong, Harry

M. Pope. Despite his seventy-five years Harry looks better today than I have seen him in several years. He is just as sharp as ever. His eyes still bother him, but they have been doing that for the past twenty-five years. Backing up Harry we find Walter Kelsey, Ed Smelter, George Bergman, Major Trull and several others of the old standbys. Any time you want to see a real indoor shoot take in the Manhattan Metropolitan, you will find both competition and sociability.

Congratulations, Al Sharp, on a wonderful new record and to Clark, Held and Schweitzer the same for putting up a good fight for first position.—AL BLANCO.

Preliminary Match

Limited Re-Entry, 16 targets

(77 Entries)

1—Sharp, A. E.	500
2—Schweitzer, W. P.	500
3—Lambert, R. D.	500
4—Shanessy, W.	500
5—Doyle, E. J.	500
6—Tekulsky, S.	500
7—Aronsohn, L. H.	500
8—Corsi, L. J.	500
9—Lippencott, J. C., Jr.	500
10—Vitran, S. J.	500

Two-Man Team Match

(42 Entries)

1—Lacy, Jack, Breuler, W.	400
2—Fakelman, T., Kolbun, J.	400
3—Gwilliam, M. R. M., Moore, S. T.	399
4—Latta, R. E., Latta, R. E., Jr.	399
5—Spillner, H., Gregoire, J.	399
6—Sharp, A. E., Bergen, R.	399
7—O'Sullivan, Jr., O'Hare, F.	399
8—Snyder, F. J., Divers, R.	399
9—Lacy, Jim, Kershaw, E.	399

Four-Man Team Match

(18 Entries)

1—Swiss Rifle Association—Ossining Rifle Club	
Trophy for one year.	
Bockman, A.	200
Derbyshire, C.	200
Spillner, H.	199
Gregoire, J.	199
2—Ossining Rifle Club—Red.	
Risley, Rod	198
Huffman, A. A.	199
Doty, A.	200
Pask, G. C.	199
3—Fenmore Rifle Club.	
Samsco, T.	200
Schweitzer, W. P.	199
Lippencott, J. C., Jr.	196
Tekulsky, Sam	200

Individual Indoor Championship

(127 Entries)

1—Sharp, A. E.	500
2—Clark, K.	500
3—Held, C. C.	500
4—Schweitzer, W. P.	500
5—Shanessy, W.	500
6—Tekulsky, Sam	500
7—Temple, L. M.	500
8—Colen, W. R.	500
9—Gregoire, J.	499
10—Kasmer, G.	499
11—Latta, R. E. Jr.	499
12—Moore, S. T.	499
13—Gadd, R. F.	499
14—Gore, W.	499
15—Bockman, A.	499
16—Bley, W.	499
17—Aronsohn, L. H.	499

Mid-West Championship Matches

THE twelfth annual program of rifle and pistol matches held in the drill hall of Fort Hayes barracks, Columbus, Ohio, by the Ohio Rifle and Pistol Association, on Feb. 19, 20 and 21 brought forth some very interesting statistics and sidelights. The registration of 193 was a new high since the team and individual matches were separated six years ago. Pistol shooters continue to be more in evidence. This year they kept eight of the thirty positions in continual use.

Consider the case of A. J. Burtcher of Toledo, Ohio, 1936 Mid-West small bore champion, who had the hard luck to "jerk", his first standing shot of the championship match for a miss, but then settled down to win the twenty shot Offhand match with 186x200; and the Fort Hayes Special, a three position re-entry, with 292x300.

Big jovial Sam Bond blew in from New Philadelphia and set two new records for the tournament. In the three position Columbus Trophy event Bond fired a 292x300, one point better than the previous record made by V. J. Tiefenbrunn of St. Louis, Missouri, in 1936, and in the Mid-West Championship Match his aggregate of 591x600 was three points better than the former record of 583 made by Burtcher a year ago.

The most spectacular shooting of the tournament, however, was done by V. J. Tiefenbrunn, of St. Louis. In the Tewes Trophy Match, thirty shots prone, metallic sights, his possible 300 plus 141 bull's eyes was a full 31 bulls ahead of the previous record made by L. A. Wilkins in 1933. To this feat he added a second place in the Mid-West Metallic sight match, a third in the Mid-West Championship and he was outranked for third in the Columbus Trophy Match.

Pennsylvania was represented among the winners by Ray Loudon, Butler, Pennsylvania, who led the Legionnaires in their match. Merle Israelson of Akron took the honors in the Mid-West Metallic sight Championship with 285x300, tying the record. In the seventh chapter of the Ohio-Connecticut, three position, ten-man team fracas, both team scores were below normal, Ohio winning by 2795 to 2767.

The Ohio Juniors won the first annual telegraphic match against the Connecticut Juniors by a score of 1761 to 1636. This match was fired 10 shots prone and 10 shots standing, metallic sights. In the Individual Junior events, Roger Hughes, understudy of Robert Hughes, an elder brother of Dewar fame, won the three position match with 274x300, and outranked Helen Jenkins of Columbus to win the prone match with a score of 193x200.

This young man also fired a 20 shot "possible" in the Annual Ohio-Culver match in which the Ohio Juniors scored 1947, Culver scores have not been received.

In the Women's Championship Match (three position), Minnie McCoy edged out Helen Imber of Findlay and Dorothea Kelly of Akron, and won with a score of 283x300. Second and third places showed scores of 281 and 280 respectively.

An additional pistol match, the National Course, was introduced into the program this year and proved very popular in spite of the fact that it was fired late Saturday night after the range was closed to other matches. R. C. Bracken of the Columbus Rifle and Pistol Club won the event with a 270x300. Glen Hooven of the same club led the field for the Mid-West Pistol Championship. His 360x400 was 16 points short of his own record set in 1934.

The scoring and chief statistical ends of the match were handled by F. L. Wyman and L. Q. Bradley of the National Office. Captain Henry M. Smith of Fremont served as Range Officer and proved to be the "rangiest" range officer ever seen in these parts. Although the firing continued through the lunch hours Saturday and Sunday, and the dinner hour Saturday, Captain Smith refused to leave the range, and Bradley brought his "eats" to him on the line. This worked out fine, except the time when Brad brought pie a la mode without the necessary tools.

Other winners included:

Mid-West Metallic Sight Championship, 10 shots pr. Kn. St. Merle Israelson, Akron, 285x300.

Senior Match—Competitors over 55 years. 20 shots pr., any sights. A. R. Smith, Toledo, Ohio—197x200.

Individual Railway Employees' Match, 10 shots pr. Kn. St., any sights and 30 shots pr., metallic sights: George W. Randall, Portsmouth, Ohio, 574x600.

Tyro Pistol—T. F. Rombach, S. Fort Mitchell, Ky., 351x400.

Pistol Team (4-man)—Columbus Rifle and Revolver Club—1413x1600.—Roy B. FOURMAN.

WILL any shooter who won a cash prize at the Indiana, Pennsylvania Tournament, and who failed to get his money, and any firm or individual who furnished supplies for the shoot, to Alan B. Salkeld in the Indiana Rifle Club's name, and who failed to get paid, please notify T. C. Hoyt, Jr., Secretary Indiana Rifle Club, Indiana, Pennsylvania.

RADIO RIFLE MATCHES

ONE of the interesting developments of the present winter season among N. R. A. members was the discovery that there are evidently a large number of shooters throughout the country who are also enthusiastic amateur radio operators. The winter months have seen a rapid exchange of shooting ideas between widely separated clubs and individuals by means of the ether waves.

On January 22 two Maine clubs, the Lincoln County Rifle Club of Damariscotta and the Eastern Division Rifle Club of Rockland, made shooting history when they staged what is believed to be the first Radio-Rifle Match. Although each team fired on its own range they were both able to watch the progress of the match, shot by shot, by means of the reports which were continually sent out by the two Government licensed radio operators who had set up transmitters and receivers in the clubhouses.

The Damariscotta operator was Harold Castner, W1IE-1, and the set at Rockland was handled by Fred O. Ripley, while Clarke Staples, the owner of W1HZ-1, was busy on the firing line. Because of the rapid exchange of scores made possible by the radio, both teams knew the results of the match almost as soon as the last shot had been fired. In addition, spectator interest was created by means of large bulletin boards set up at both ranges so that every person was able to tell at a glance the exact status of the match.

This practical demonstration of the advantages of using amateur radio facilities for speeding up the communication of shooting news indicates that there may be other means of using this method of communication to good advantage. L. M. Temple, who operates station W2H2B in Scardale, N. Y., and Hal Drake, ex W4BWAM, Atlanta, Georgia, had already suggested the possibility of setting up a portable station at Camp Perry and at other important tournaments so that shooters who remained at home could receive complete radio reports of the match results. It is also possible that at some future date arrangements could be made to make the Dewar Match and other similar international and intersectional events more interesting by exchanging scores by radio. It might even be possible to arrange with some English station to broadcast the results of the Pershing Match when it is fired at Bisley in July. Before this is definitely planned or attempted it would be wise to have some idea of how many readers of THE AMERICAN RIFLEMAN are also amateur radio enthusiasts and would be interested in such a service. Let's hear from you radio bugs. Tell us what frequencies you use and what are your call letters.

PISTOL PARADISE

On the East Shore of San Francisco Bay is a community known as the East Bay, which comprises the Cities of Oakland, Berkeley, Alameda, Richmond and other smaller cities. The residents of this area cannot tell when they leave one city and enter another. Here is the western terminal of the world's largest bridge—San Francisco-Oakland Bay Bridge, here also is the pistol shooters paradise with outdoor pistol competitions starting in February and ending in December.

During 1937 there will be eleven major pistol events held in the East Bay and the number of competitors in no event will be less than 150, and in some of them it will probably reach 300. Last year the record was 276.

The Richmond Rifle and Revolver Club will hold three pistol competitions. The Oakland Rifle and Revolver Club will also hold three, while the Alameda Police Revolver Club will hold two pistol competitions. The annual pistol matches of the California Rifle and Pistol Association will also be held at the Alameda Police range.

If this is not sufficient for the shooters of the East Bay they can cross the Bay where eleven monthly matches are held in San Francisco or to San Rafael or to the Sacramento Valley for two competitions in Stockton and two in Sacramento.

ILLINOIS STATE MATCHES

LEW W. MASON of Aurora scored a 397x400 in winning match number five of the Illinois State Rifle Association's indoor small bore program. Paul E. Poe of Milan also shot a 397, but was out-ranked for top honors. E. K. Waters, Chicago marksman, placed third with 396. Winners in B and C classes were E. H. Pierce, 391, and A. J. Woxenraft, 382. Conditions specified the international target reduced for 75 feet, any metallic sights, prone.

C. A. Norris, Chicago police officer, was the state's number one marksman in pistol match number three, a rapid-fire event at fifty feet. Norris scored 183. Other leaders included: P. D. Walsh, 181; R. O. Schilke, 181; Duncan Walker, 177, and F. R. Kent, 172. Archie Sexton was top among B class entrants, and the State Association's Secretary, S. A. Weller, of Downers Grove, was the C class monarch.

Pistol match number four, an aggregate of numbers one, two and three, was won by Perry Walsh, closely pressed by C. A. Norris and "Chief" Duncan Walker of the Federal Reserve Bank. Frank Kent, J. R. Clegg and John Reynolds were high among the other gunners who gave the winners a close battle.—J. SHERWIN MURPHY.

Chicago's Boat and Sport Show Shoot

By SHERWIN MURPHY

INDOOR competition in the Chicago district touched its season's peak during the week of February 28 to March 7 when the fourth annual Boat & Sports Show rifle and pistol matches were fired at Navy Pier. At the same time, new all-time records were established both for volume of match entries and the number of visitors who witnessed the various events.

During the eight days close to five hundred entries were recorded in the single entry matches and more than six hundred and seventy-five competed for N. R. A. qualification medals. Spring-like weather, which prevailed throughout the week, stimulated attendance at the show. It was estimated that over 150,000 sport fans passed through the turnstiles.

The well-equipped 75-foot range, which had five firing points, was located at the extreme east end of the exposition. Ample floor space back of the firing line made it possible for hundreds of visitors to witness the range activities. The range, which was in charge of Russell Wiles, Jr., was open daily from one o'clock until eleven.

The location and arrangement of the range offered the general public an unusual opportunity to see shooting at its best. When not on the firing line, many of the marksmen assisted in answering the questions of show visitors, explaining the interesting features of shooting as a sport and contacting prospective members for local clubs.

As in past year the *Chicago Daily News* was sponsor for the week's program. No effort was spared by this publication in doing a thorough job of promotion. The week before the meet started daily stories described the various events on the program. Photographs of club officials and well-known marksmen appeared with all articles. "Commodore" Salty Bell, nationally-famous yachting editor and bridge authority, handled the advance publicity and wrote up the day-by-day results.

The Illinois State Rifle Association, co-operating with the *Chicago Daily News* and "Hub" Erickson, Boat & Sports Show manager, assumed management of the matches under the leadership of its officers. The permanent range officer was assisted by individual members of the association who handled entries, ran the line and took charge of statistical work.

As a preliminary to the matches proper the opening day, a Sunday, was devoted to firing for N. R. A. "skidoo" medals. The first single entry event, a slow fire

pistol match for "any center fire pistols or revolvers" was fired on Monday. J. E. Clegg, C. W. Schledorn and N. J. Oglesby tying with 176's ranged in the order named. Class winners were E. W. Lingrin in "B" and S. A. Weller in "C". J. A. Webber, C. E. Nordhus, C. W. Schledorn, L. C. McGuinn and the same S. A. Weller were the medal men in a .22 pistol competition fired the same day.

Frank Kent rated as number one man in an individual slow, timed and rapid pistol match fired on Tuesday with C. A. Norris, Chicago police ace, nosing out P. D. Walsh by the ranking route. J. A. Hammond and Morrison Worthington were winners in B and C classes.

This year's program contained a new rifle event, five shots each in prone, kneeling and standing positions, any sights. Ken Smith of the Chicago Rifle Club, a last-minute entrant, hung up a 144 to take first. E. L. LaRue scored 143 and A. L. Tange, 142. The latter was also "high gun" among iron sight shooters.

A pistol team match, in which fifteen squads entered, gave the public its money's worth on Thursday night. The continual cracking of rapid fire was a magnet that drew onlookers by the hundreds, much to the disgust of golfers and horse shoe pitchers, who occupied adjacent spaces.

Two rifle competitions were the features on Friday. In the women's event, a comely coed, one Marion Karstens of Wheaton College, gave the other "gals" something to shoot at by turning in a twenty-shot possible. Cora Converse, who didn't have an alibi for a fat eight, rang up a 198. Jean Carr of Wheaton College scored 197 to tie but outrank Miralette Sauers of Winnetka.

Fame will record a certain Legionnaire, "Nielson" by name (initials not given), as winner of the second event of the day, an individual rifle match (10 shots prone and 10 sitting, iron sights). His was a 200-point possible. Other leaders were: August Tange, 199; R. Wiles, Jr., 197; R. L. Ord, 196; Lew Mason, 196, and Fred Johansen, 196.

Rifle teams clashed on Saturday in a prone and standing match, any sight conditions. An inspired squad from the re-organized and rejuvenated Westric Rifle Club of Chicago defeated all comers by a team score of 751. Chicago Rifle Club's marksmen, runners-up in 1936, were again second best. Des Plaines Rifle Club in third place was the iron sight leader.

A Special Award



The watch illustrated above has been awarded by the N. R. A. to William P. Schweitzer, No. 1 ranking small bore shooter of 1936. Similar awards have been given to Dave Carlson and William B. Woodring, Nos. 2 and 3 on the list, while the other shooters included in the first ten have received special prizes

CONNECTICUT GALLERY CHAMPIONSHIP MATCH

ONLY such words as super colossal, epochal, gigantic and unrivaled are adequate to describe the ninth annual gallery championship matches of the Connecticut State Rifle and Revolver Association, held on the famous Winchester ranges in New Haven, March 5, 6 and 7th.

There are 958 shooters who participated in this classic match shot at 50-feet with metallic sights only and open to men, women and juniors. This total included 96 senior and fourteen women's teams of five each in the four-position match, five shots standing, kneeling, sitting and prone. 54 junior teams of five who shot ten standing and ten prone, as well as 93 individuals in the four-position and junior matches.

Through the courtesy of the Winchester Repeating Arms Company, who have done so much for the shooters in this state, the match was held on the Winchester 50-ft. ranges, there being one bank of 12 targets under the cafeteria and another bank of 10 under the club house meeting hall. The light was very good and conditions perfect for the highest grade shooting; all the 22 firing points being equipped with target carriers.

Herb Goebel represented the National Rifle Association and listened to and advised many of the club members who came to him with their problems and the well known "Nick" from the N. R. A. did the scoring of the several thousand targets in a very rapid and efficient manner to the entire satisfaction of all the shooters.

Among the many interested visitors were Major J. W. Hession of the Winchester Company, Gail Evans of Remington, Major Henry March of Hercules and Henry Lyman from the Lyman Gun Sight

Corp., up in the hills of Connecticut at Middlefield. The match was under the direct supervision of J. Russell Lent, President of the State Rifle and Revolver Association, assisted by many officers of the association.

The Lyman Company offered very fine gold medals of a new and artistic design to any junior shooter who made a score of 50% or higher, or a score of 100 out of a possible 200, and over 300 of these medals were won by the junior shooters. Each medal had a percentage bar on the black and gold ribbon showing the percentage of the score of the winner, 50%, 60%, 70%, etc. In later matches if the junior registers a higher score, the bar will be exchanged for one showing a higher percentage score.

The little town of Milford, with a population of only twelve thousand entered from the Wepawaug Rifle Club nine teams of five and six individuals a total of 51 shooters, which included two teams from Battery E, C. N. G. Ten teams were entered from the village of Middlefield.

The teams which came the greatest distance to shoot were the Forbes Rifle and Pistol Club from Troy, New York; three teams from the General Electric in Pittsfield, Mass.; two teams from the Snipers Rifle Club in Providence; one from the Providence Rifle Club and two teams of juniors from Cranston, R. I., High School, and the Ridgewood (N. J.) Rifle Club and the Amateur Rod and Gun Club from Orange, N. J., also the Papco Rifle Club from Paterson, N. J.—all these teams traveling well over 100 miles to shoot. There were numerous teams from Long Island and New York City present also.

Of the 96 senior teams, first place was won again this year by the Quinnipiac Rifle and Revolver Club team, who shot in the

first relay Friday night, and scored 942 points, winning five silver medals, the State Association N. R. A. Plaque, and a substantial cash prize; second place went to the Papco Rifle Club of Paterson, N. J., with 930 points, giving them a special award as the highest scoring team from outside the state; third, Wepawaug Rifle Club Team No. 1 of Milford with 927 points; fourth, Woodhaven Long Island American Legion Club 922 points; fifth, Roslyn Rifle and Revolver Club from Roslyn, L. I., with 917 points and sixth, Enfield Rifle Club Team No. 1 from Thompsonville, Connecticut.

There were 14 women's teams entered in the four position match, first place being won by the Winchester Girls' Rifle Team No. 1 with 849 points, second, South Lyme, Connecticut, Girls' Team with 847 points and third, Wethersfield, Connecticut, American Legion Girls' Team with 821 points.

The juniors fired ten shots standing and ten prone, the first team of the 54 entered being Poly Prep Day School of Brooklyn, N. Y., with 882 points; second, Brooklyn Technical High School with 867 and third, Abraham Lincoln High School of Brooklyn with 856. Poly Prep won five medals as the highest scoring junior team from outside the state. The highest scoring juniors from Connecticut were Loomis School of Windsor with 822 points, five bronze medals; second high, Connecticut Greenwich Y. M. C. A. Juniors with 810, five bronze medals.

Eric Johnson of Hamden, with 194, won the State Championship gold medal, second place going to J. Nolan of Battery E, C. N. G., Milford with 191, and third to J. J. Lacy of Wallingford 191. The highest scoring shooter from outside the state was A. Crowley of Richmond Hill, L. I., who scored 193 points.

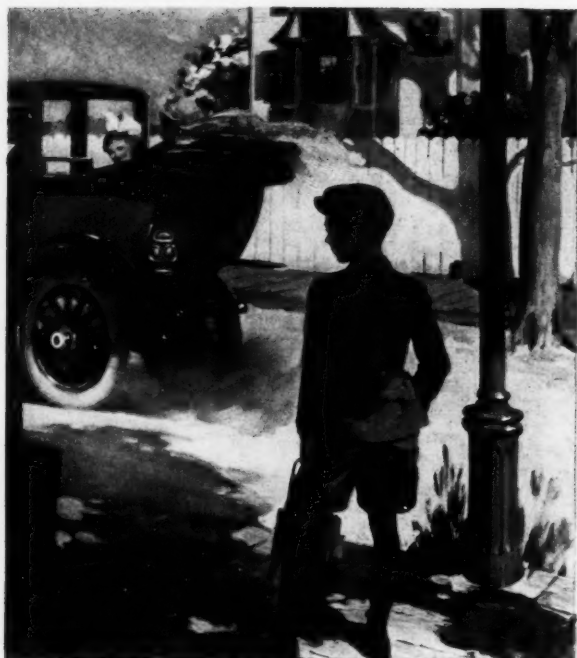
Alice Murdock of the Woodhaven, L. I., Legion team was the highest scoring woman shooter from outside the state, registering 187 points and she was requested to select her own medal from the samples on exhibition by Gene Mitchell, which she did. The Women's State Championship was won by Florence Murray of New Haven, scoring 183 points.

Of the junior shooters, Griffith Bedworth of Waterbury, who attends Taft School in Watertown, was the high scorer with 184 points.

An innovation at this match was the special daily bulletin which was run off on a mimeograph machine behind the line and was issued to all shooters present each day. The bulletins, which contained news items and cartoons as well as scores, made a big hit with the shooters. Plans are already being made for next year when the officers of the association believe 1,200 shooters can be attracted to the match.—EDWARD F. COOKE.



**THIS IS THE STORY OF A SHOOTER
WHO MADE A LIFE-LONG DREAM COME TRUE**



1. It was back in the days when the motor car was young that the dream took shape in my mind. I promised myself that when I grew up and had made my mark in the world, I, too, would ride around in a Packard.



2. As the years went on, I never forgot that early resolve. I did well enough in life, but my obligations seemed to mount with my income. So I tried to put Packard out of my mind and be content with lesser cars.



5. "The small car I used to drive more than covered the down payment on this Packard. I've never driven a car that cost less to run. And my monthly payments are only a little more than \$30 a month."



6. Well, that drive home with Tom certainly opened my eyes. Shortly after I went to a Packard showroom, drove a Packard, and got the thrill of my life! And they showed me actual figures which proved that the Packard Six, for example, costs little more to own and operate than the cheapest car you can buy.

7.
as
An
me
not



3. Oddly enough, one of my employees helped me to realize my dream. He offered to run me home, and I could hardly believe my eyes when he drove up in a Packard.



4. "Tom," I said, "you must be a better manager than I am. I've never felt I could afford a Packard."

"I don't see how you can say that, Mr. Ryan," he replied. "Why, this Packard Six is a cinch to own."



7. So today, I own my Packard. I'm as proud as a schoolboy with his first long trousers. And I've proved the truth of the old statement, "You are paying for a Packard—why not own one?"

And remember.... every Packard has two lives

ONE OF THE MOST vital points to remember about the new Packard is that it has not *one* life, but *two*.

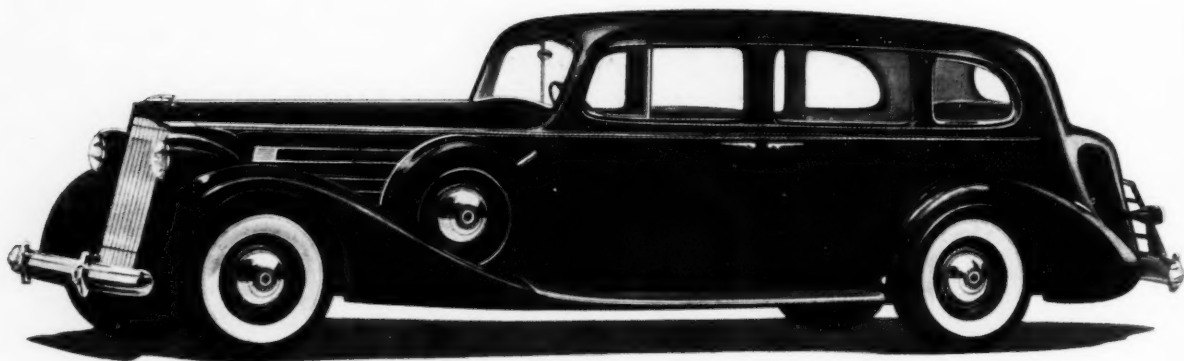
First, long mechanical life. You can keep your Packard for years and it will still deliver new car performance. It will still have ready acceleration, velvet-smooth braking, and delightful ease of control. The car is *built* to stay new — built to stay out of the shop.

Second, long appearance life. Because Packard adheres to its famous radiator design, Packard motor cars have enduring identity. A Packard *stays* looking like a Packard. Its long mechanical life is never cancelled out by lines that quickly lose their beauty and smartness.

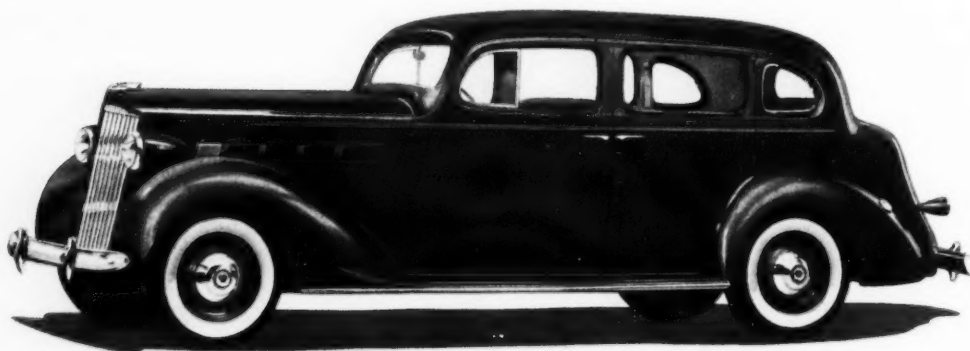
Why not take the first step to Packard ownership—without stirring from your home? On the next page you will find a coupon; simply fill it in and mail it to Detroit. Then, when you receive the facts, make up your own mind whether any other car in America has so much to offer you.

PACKARD OFFERS A *COMPLETE LINE* OF FOUR FINE CARS

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Shown above is the Packard Twelve Touring Sedan for seven passengers



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CUT ON DOTTED LINE

PACKARD MOTOR CAR CO., DETROIT, MICH., Dept. AR

My present car is a _____ (make) _____ (year) _____ (model)

Of your four cars, my choice would be a Packard Twelve () Packard Super Eight () Packard 120 () Packard Six () (check one).

How much would you allow me on my present car toward the purchase of the Packard checked above?

Assuming that I prefer to buy my Packard out of income what, then, would be the required cash down payment, if any?

How much would my monthly payments be?

Name _____

Address _____

BREWER WINS WASHINGTON MEET

DESPITE snow storms and general bad weather which blocked roads and caused bad snow slides in the mountains of Washington and Idaho, preventing many shooters from attending the annual meet of smallbore riflemen and women to decide the 1937 state championship, there were more competitors than have been present at the last two or three such meets.

The shooting started on the afternoon of February 20th with a series of six matches which included all positions. The five high scorers in the afternoon's firing were: Wallie Burnham, with a score of 1171 X 1200; Paul Weaver, 1154; Nooney, 1145; Jim Crawford, 1142, and Kenneth Webb, 1140.

After this auspicious start everyone expected "King" Burnham to repeat his successes of the past two years and romp off with the championship on Sunday, but witness what actually happened.

In the Ellensburg Match—30 shots prone with iron sights—three scores of 299 X 300 were turned in with that of Kenney Webb from Yakima outranking that of Don Brewer, and his in turn outranking that of Walter Lutz. Paul Weaver followed closely with a 298 for 4th place and Frank Nooney tagged along for 5th with a 297.

The W. S. R. A. Match—10 prone, 10 sitting and 10 standing—failed to bring out any unusual scores and T. K. Reed of Clarkston, Washington, captured 1st with the comparatively low score of 284. Don Brewer made 2nd place with a 283; Lutz took 3rd with 281; Myron Ladd was 4th with 280 which outranked a similar score shot by Webb.

Match No. 3—the N. R. A. qualification course of fire—definitely separated the sheep from the goats and it was in this match that Brewer, former state champion of Nebraska, really came to the front with an exhibition of marksmanship that demonstrated his fitness to wear the crown of Washington indoor champion which his winning of this match made almost a certainty. Brewer's total of 573 gave him the trophy, and his 195 in the kneeling position won the Meister trophy for him. Second place was won by Burnham who here made his first showing of the day with a score of 565. Johnny Gay of Spokane took 3rd with a nice 564 which outranked the same score shot by Walter Lutz, and Myers of Opportunity came in 5th with 561.

The Interclub Match climaxed the best shooting of the day with a sensational score shot by Percy Myers totaling 196 X 200 for 10 shots prone and 10 standing. By shooting this 196 offhand Myers now holds the state record for indoor championship matches. Burnham again ham-

New Imperial Valley Range



A NEW rifle range has sprouted in the midst of the vast desert which covers the far southwest corner of our country. The members of the Imperial Valley Rifle Club selected a spot just eight miles north of the Mexican Border, and only a few miles from the construction work on the All American Canal to build a six-point target range which permits them to shoot at all distances up to 1,000 yards. To a shooter on the firing line the limitless expanse of the desert is broken only by the Chocolate Mountains which poke into the far distant skyline.

To Verne Hess, last year's Club President, goes a large share of the credit for giving the club its excellent plant, but the entire club responded with a will to his call for labor parties. Very little new material was used in the pits, in fact, a large part of the lumber framing came from heavy machinery crates which consisted of 10" x 10" posts and 2½" x 6"

southern pine. The target frame carriers were made from 2" pipe welded into a frame work and mounted on 1½" vertical pipes secured to pipe headers, each target being counter-balanced with a weight carried on a timber header. The target frames were designed by Joe Golden of the 1935 California Civilian Team.

The range was officially opened on February 7, when the club entertained the West Coast Rifle Club from San Diego in an individual match over a short national match course, no 1000-yard firing. Despite an erratic wind which at times would let up then assume the proportions of a gale, some presentable scores were made. Junius Willoughby, an ex-marine with the West Coast, carried off top honors with 179, topping C. P. Delp of the Imperial Valley Rifle Club with 179, by virtue of Creedmore, Kenneth Rose, of the West Coast, was third with a 177.

pered his way into 2nd place with a 193, followed by Brewer with another 193.

The Grand Aggregate and the state championship, which carried with it a beautiful trophy and gold medal, was won by Don Brewer of the Union Pacific Club of Spokane, who had a total of 1348 X 1400. Walter Lutz won 2nd with 1336; Burnham, 3rd with 1330; T. K. Reed, 4th with 1325.—FRANK S. NOONEY.

TWO SUGGESTIONS FOR CLUB SECRETARIES

C CLUB secretaries who are looking for prizes to award at their major club tournaments will be interested in the offer of Fray-Mershon, Inc., distributors of shooting specialties who have announced that they will donate merchandise prizes to clubs affiliated with the N. R. A. to be awarded at a major club event during the year.

In order for any club to take advantage of this offer it is only necessary for the club secretary to write to Fray-Mershon,

Inc., 351 South Vermont Avenue, Los Angeles, California, telling the dates and character of the tournament in which the prizes will be awarded, and giving some proof of N. R. A. affiliation. Each club may request such awards only once during each calendar year, and the prizes donated will be in keeping with the size and character of the tournaments.

An interesting little folder was recently received from the Capital City Rifle and Revolver Club of Sacramento. It was interesting because it demonstrated one phase of promotion work in which most clubs are weak.

This little four page folder, measuring only 4x6 inches, was prepared for the information of prospective members. It tells them what the club was,—its objectives, its range facilities for pistol, small bore and high power rifle shooting. It mentions the variety program in which the club engages and it includes an application blank for the prospect to fill out and return.

Rifle and Pistol Shooting in Detroit

THREE years ago the active clubs in the Detroit Metropolitan area got together and formed the Detroit Metropolitan Smallbore Rifle Association. The purpose of this association was to establish regularly scheduled league team competition on a shoulder-to-shoulder basis. Indoor rifle shooters had no shoulder-to-shoulder competition except an annual team match which drew a constantly decreasing entry list each year due to the fact that no provision was made for the classification of teams according to their ability.

The new association started off its first schedule with the modest entry list of 10 teams. Mr. E. N. Moor contributed \$100.00 for trophies and the entry fees of the 10 teams and 40 odd individual entries paid for the medals. Individuals who wanted to have their team scores count for individual prizes paid \$1.00 individual entry fee additional to the team entry. Each team fired one match against each of the other nine. Everyone liked the set-up so well that 16 teams entered in the second year, and there are now 26 in the third season.

Pistol shooting in Detroit has also taken a new lease on life with the advent of the newly-organized Eastern Michigan Pistol League. This league, composed of all the active clubs in the Greater Detroit Metropolitan area, was formed to promote (shoulder-to-shoulder) team shooting as the best method of introducing the novice and the casual shooter to the finer points of the sport. The response to the call for entries was amazing. Twenty-two (6) man teams lined up for a 10-match schedule in A, B and C classes, firing regularly scheduled matches twice a month. Including alternates approximately 150 men are firing and of this number over one hundred are men who have never engaged in previous local competition or the Annual State Pistol matches. Six trophies have already been donated by local business houses and individuals, and especially designed medals which will be considerably above the average are being sent out for quotations.

Pistol shooters of Detroit have had only the annual outdoor state championship pistol match to work for in the past with an occasional individual match sponsored by some local club and usually drawing a list of 30 or 40 competitors. The response to the team league indicates that it is the best method of promoting the shooting game due to the fact that it welds groups of men together with a feeling of responsibility that they never acquire when shooting as individuals.

The *Detroit News* is co-operating through their Mr. John McManis in publishing all scores and team standings of each rifle match and the effect of the publicity is being felt. After each report is published some club receives new prospects, who have been wondering where and how they could get into the shooting game. Eventually, with intelligent control, it is hoped to obtain a Central Indoor Range with 40 or 50 targets arranged in double tier style on which all league matches will be held. An analysis of the target shooting game indicates that it is vitally necessary to furnish a proper background for our activities, a background where socially inclined people may mingle and enjoy their hobby without being disgusted with their first impression of the facilities offered, and resigning themselves to other pleasures under more pleasant surroundings. Proper facilities will enable us to command the respect for our hobby from the authorities and the press that is accorded other sports.—G. F. Petersimes.

N. R. A. QUALIFICATION COURSES

Beginning April 15th a choice of twelve qualification courses (six pistol and six rifle) will be open to shooters. These matches will be known by letter as follows:

Rifle Section

- A.—50 ft. gallery.
- B.—75 ft. gallery.
- C.—Short range.
- D.—Metric.
- E.—Long range.
- F.—30 caliber (metallic sights).

Pistol Section

- G.—22 caliber 50 ft. gallery.
- H.—Center fire 50 ft. gallery.
- I.—22 caliber 20 yds. gallery.
- K.—Center fire 2 yds. gallery.
- L.—22 caliber outdoor.
- M.—Center fire outdoor.

A complete program of these events is now being prepared and will be available about April 15th. A copy will be mailed to you upon request. The regular outdoor postal match program is now in the hands of the printer and will be mailed to all members early in April. Read it carefully—then plan to take part in at least one event on the schedule.

AUTOMATIC TARGETS AT MADEIRA RANGE

PARTICIPANTS in the 2nd Annual Tri-State Pistol Matches scheduled to be held May 15-16, 1937, under the sponsorship of the Indian Hill Rangers, Madeira, near Cincinnati, Ohio, will fire the 25-yard stages at Duff-Norton automatic and electrically time-controlled targets.

Installation of a battery of ten of these targets is underway on the new modern range owned by the Rangers, and they will receive their baptism of fire at the Tri-State Matches.

Entry in the matches is limited to residents of Ohio, Indiana and Kentucky, according to an advance copy of the program, and the event will be a registered N. R. A. tournament, supervised by officials of the National Rifle Association.

The two-day tournament will consist of twelve events, eight of which are open to all entrants. Four matches will be limited as to participants, two of them scheduled for the morning of the first day and open only to bona fide police officers who earn all or part of their livelihood through the organization they represent. Individual and four-man team championships will be fired over the National Match and Camp Perry Police Courses.

In connection with the United Service Matches, the Indian Hill Rangers have been notified by Major General W. E. Cole, commanding the 5th Army Corps Area, that personnel of the U. S. Army and National Guard may use scores made in the Individual Championship for their service qualification. The scores will be certified by Major John H. Knebel, U. S. A., who will serve as Chief Range Officer.

A total of 78 event prizes will be awarded, consisting of 12 Individual Cups, 2 Team Cups, 8 Replicas of Team Cups, 20 Silver Medals, and 36 Bronze Medals. All awards carry the special prized Indian Hill Rangers emblem.

Match officials in addition to Major Knebel will be: A. H. Chatfield, Jr., Executive Officer; Captain H. E. Wilson, I. H. R.; Com. M. C. Johnson; H. M. Davison, Jr., and Roy Brewer, Assistant Range Officers; George A. Ohe, Official Scorer.

GUNS REPORTED STOLEN

1 Goetz 2½x Telescope, enlarged eye-piece, horizontal line with dot reticule, four foot mounts. When taken had home-made bronze plate attached to fit contour of Remington Model 14 Receiver. \$10.00 reward. Address Hans Roedder, Devon, Pennsylvania.

\$25.00 reward for return of Johnson heavy barrel mounted on Winchester 52 action. Taken from parked automobile in New York City in January. Please notify William P. Schweitzer, 885 Westminister Avenue, Hillside, New Jersey.

ALABAMA

***May 1-2:** Alabama State Small Bore Tournament will be fired on the General Persons Range, Birmingham, Alabama. Sponsored by the Alabama State Rifle Association. Quarters available on range for competitors. For programs write M. F. Scott, Secretary, c/o Alabama Power Company, Birmingham, Ala.

ARIZONA

April 4: State Pistol Association of Arizona Championship matches. For programs write C. Howard Hathaway, Box 71, Tucson, Arizona.

CALIFORNIA

***April 9-10-11:** California State Small Bore Matches will be conducted in Glendale. For programs write L. A. Pope, 532 Oakford Drive, Los Angeles, Calif.

May 23: Oak Park Pistol Club will sponsor the Northern California Pistol Tournament to be held on the newly improved range in Stockton. For programs write Dr. J. Coleman Browne, 902 Bank of America Building, Stockton, California.

June 12-13: Richmond Western State Tournament will be fired on the municipal range at Richmond, California. For programs and further details write M. G. Ljutic, 127 37th Street, Richmond, California.

June 18-19-20: California .30 caliber Rifle Matches and State Civilian Team tryouts will be held on San Luis Obispo range.

***July 31 and Aug. 1:** State Pistol Matches will be fired at Alameda. For programs and further information write L. A. Pope, 532 Oakford Drive, Los Angeles, California.

COLORADO

***May 23:** Fourth Annual Dewar Tournament sponsored by the Greeley Rifle Club and fired on the club range at Greeley, Colorado. For programs write Harry T. Rosling, 922 Sixth Street, Greeley, Colorado.

CONNECTICUT

June 18-19-20: Connecticut State Small Bore Matches will be held at East Haven, Connecticut.

FLORIDA

May 8-9: State .30 Caliber Matches, Team and individual, sponsored by the Florida State Rifle and Revolver Association, held on the Winter Haven range. For programs write Mr. Harry Miller, Winter Haven, Florida.

ILLINOIS

April 2-3-4: Second Annual University of Chicago Rifle Club Invitational Match. Indoor Dewar matches, team and individual, also 100-yard any sight event. Matches fired on range in University of Chicago Field House. For programs write S. A. Weller, Secretary Illinois State Rifle Association, 4809 Oakwood Avenue, Downers Grove, Illinois.

April 9-10: Annual Mid-West Interscholastic Rifle Matches at the Morgan Park Military Academy, Chicago, Illinois. Both team and individual events. For programs and further information write Major P. O. Franson, P. M. S. & L. Morgan Park Military Academy, Chicago, Illinois.

July 23-24-25: Small bore rifle and any caliber pistol matches to be conducted by the Illinois State Rifle Association at Camp Grant, Illinois. Programs not yet ready for distribution.

IOWA

March 1 to April 12: Twentieth Annual American Indoor Home Range Record Match and 100-Shot Championship. International course: 50-ft. standing, kneeling, prone, free rifle, any sights. 100-Shot Off-hand Championship 75-ft. For programs write C. T. Westergaard, Whiting, Iowa.

May 16: Iowa State Rifle Association will sponsor the First Annual Small Bore Eastern Iowa Regional Match to be held on the new range of the Muscatine Rifle Club, Inc. Write J. G. Johnston, Secretary, 219 W. 7th Street, Muscatine, Iowa.

COMING EVENTS

May 22-23: Iowa State Pistol Matches to be held on the Camp Dodge Rifle Range.

June 19-20: Iowa State Small Bore Matches will be conducted by the Iowa State Rifle Association at Fort Dodge, Des Moines, Iowa.

July 31-Aug. 1: Iowa State .30 caliber Matches and tryouts for state civilian team at Camp Dodge. Programs available after May 1. For further information write G. G. Cooper, 816 Telephone Building, Des Moines, Iowa.

KANSAS

April 26 to 30: 50-foot interclub team and individual gallery match sponsored by the LaCrosse Rifle and Pistol Club and fired on the club range. For full information write Mr. C. L. Small, secretary, LaCrosse, Kan.

MARYLAND

***July 1-2-3-4-5:** Eastern Small Bore Rifle and Pistol Championships at Camp Ritchie, Maryland.

MASSACHUSETTS

April 3: The Beverly Rifle and Revolver Club will hold the second annual junior rifle matches, team and individual. Programs may be obtained from Mr. David C. McNeill, 33 Beckford Street, Beverly, Mass.

May 15-16: New England Police Revolver League at Wakefield, Mass.

July 24-25: Bay State Small Bore Tournament will be held at Walnut Hill, Mass.

MISSOURI

May 22-23: Missouri State Matches sponsored by the Missouri State Rifle and Pistol Association at Jefferson City, Missouri.

NEW HAMPSHIRE

July 10-11: New Hampshire State Small Bore Tournament will be held at Manchester, New Hampshire.

NEW JERSEY

May 2: 4th Annual 50 Meter Individual and Team Invitation Shoot sponsored by the Amateur Rod and Gun Club. The "Biggest Little Shoot in the East." 170 competitors in 1936. First prize a new target rifle, special awards for "average" shooters. Write R. B. Champlin, 20 Robertson Road, West Orange, N. J., for full information.

May 9: Second Annual Small Bore Rifle Shoot sponsored by the Paramount Rifle and Pistol Club at their range, 271 Moonachie Ave., Moonachie, N. J. For details write Geo. H. Hurst, 12 Joseph Street, Little Ferry, N. J.

May 30-31 and June 1: Sea Girt Small Bore Rifle and Pistol Matches at Sea Girt, New Jersey. For programs write H. W. Amundson, Plainfield, N. J.

NEW YORK

***April 17-18:** Niagara Frontier Pistol and Revolver Gallery Matches. Sponsored by the Buffalo Pistol and Revolver Club. For programs write Wallace A. Beattie, 518 Jackson Bldg., Buffalo, New York.

April 18: Roslyn Rifle and Revolver Club, Inc. will hold a general shoot at the club's outdoor range. For programs write Peter Johnner, Jr., Secretary, Box 331, Roslyn, New York.

May 13-16: 7th Annual Hudson Valley Small Bore Championship sponsored by the Poughkeepsie Rifle Club. For details write G. W. Morehouse, 5 Oak Crescent, Poughkeepsie, N. Y.

August 15: Poughkeepsie All Range Match sponsored by Poughkeepsie Rifle Club. For programs write G. W. Morehouse, 5 Oak Crescent, Poughkeepsie, N. Y.

NORTH CAROLINA

May 7-8: The Kannapolis Small Bore Tournament sponsored by the Kannapolis Rifle & Pistol Club. For programs write S. K. Barringer, Secretary-Treasurer, Kannapolis, N. C.

OHIO

April 3-4: Ohio Small Bore Gallery Team Matches fired over the Fort Hayes range in Columbus. Sponsored by the Ohio Rifle and Pistol Association. For programs write F. L. Spencer, 502 N. Walnut St., Wilmington, Ohio.

May 15-16: Second Annual Tri-State Pistol Matches conducted by the Indian Hill Rangers over their range in Cincinnati. For programs write H. E. Wilson, Indian Hill Rangers Headquarters, Madeira, Ohio.

July 17: 2nd Annual Ohio Valley Pistol Championship Matches, and Ninth Annual Silver Cup Matches. Sponsored by The Legion Rifle and Pistol Club. Write Phil D. Butler, Director of Pistol Competition, 62 S. Paint Street, Chillicothe, Ohio.

***July 30-31 and Aug. 1:** Zeppelin Small Bore Rifle Tournament, Akron, Ohio. This year will include pistol matches for the first time. Program not yet ready for distribution.

Mid-August: All American Pistol Matches sponsored by the Indian Hill Rangers. Write Rudolph Homan, Madeira, Ohio.

August 22 to September 11: National Rifle and Pistol Matches, Camp Perry, Ohio. These dates are not definite, and are subject to change. Complete information will be contained in future issues.

OREGON

May 29 to 31: Annual State Small Bore Tournament sponsored by the Oregon State Rifle Association. For programs write Leslie St. Clair, Gresham, Ore.

PENNSYLVANIA

May 31: 2nd Annual Memorial Day Small Bore Shoot sponsored by the Zelenople Rifle Club. For information and programs write Rev. Guy M. Wilson, Secretary, Spring-Division Streets, Zelenople, Pennsylvania.

June 12-13: Sixth Annual Walnut Creek Rifle Club Tournament. For programs write F. S. Campbell, Secretary, 1810 West 12th Street, Erie, Pennsylvania.

RHODE ISLAND

July 10-11: Rhode Island State Small Bore Tournament will be held at Providence, Rhode Island.

July 17-18: Providence Police Pistol Matches will be held at Providence, Rhode Island.

TEXAS

April 17-18: 5th Annual Wichita Falls Small Bore and Pistol Tournament sponsored by the Wichita Falls Gun Club, Inc. For programs write H. E. Barr, Secretary, P. O. Box 1191, Wichita Falls, Texas.

***May 8-9:** Texas State Small Bore Tournament will be held in Fort Worth. Sponsored by the Texas State Rifle Association, Inc.

June 3-4-5-6: Texas State Big Bore Matches to be held at Camp Bullis (San Antonio), Texas.

***July 17-18:** Texas State Pistol Matches to be held at Laredo, Texas. Sponsored by Texas State Rifle Association, Inc. For programs write L. L. Cline, President, 325 Cedar Street, San Antonio, Texas.

VIRGINIA

May 29-30-31: Virginia State Championship Matches sponsored by the Richmond Rifle & Pistol Club, Inc. For programs and further details write Mr. M. K. Downes, 1505 Greycourt Avenue, Richmond, Virginia.

* Indicates Registered Tournament.

Progress Report on Firearms Legislation

In the following report any bills which had been previously covered are referred to only by number. If you wish to know more about the bill in question refer to the March issue of *THE RIFLEMAN*. Members are urged to contact their own Senator or Representative for more complete and up-to-date information on the status of any of the bills in this list. All members will be warned of any bills which we feel are sufficiently objectionable to warn a concerted objection on the part of all sportsmen.

STATE LEGISLATION PENDING

California

A. 822, prohibiting the use of shotguns with not more than two shells. No further report.

A. 823, introduced by Assemblyman Lyon would prohibit the transfer of any firearms or ammunition to any person under 16 years of age in any manner whatsoever. This bill if enacted would make it impossible for any junior to practice marksmanship. **Kill the bill.**

A. 1598, relating to trap guns. No further report.

S. 444, controlling the possession and sale of tear gas. No further report.

S. 629, increasing the maximum penalties for the illegal use of firearms. No further report.

S. 910, introduced by Senator Garrison and referred to the Committee on Criminal Law and Procedure amends Section 6 of the present California firearms code by exempting district attorneys and investigators from the necessity of securing a permit to carry concealed weapons. There is no objection to this bill.

Colorado

H. 39, prohibiting the use of high powered arms on small game. No further report.

H. 379, the Revenue Bill. Present status unknown.

H. 782 and 783, controlling the sale and use of firearms. No further report.

H. 864, amending the present California firearms statute. No further report.

S. 269, requiring a notice before issuing a permit to carry firearms. No further report.

Connecticut

The various firearms measures introduced in the Connecticut State Legislature were considered at a public hearing on February 23rd and because of the objections expressed at that time all such bills have been reported killed.

Indiana

S. 81, vesting the power to issue permits to carry revolvers with the Superintendent of State Police instead of circuit court judges, as is now the case, was passed by the Senate on February 16th, and was reported favorably in the House on February 23rd. We have been advised by leading sportsmen in Indiana that this arrangement is preferred to the present set-up.

S. 228, introduced by Senator Inman on February 16th, provides that employees of express companies when engaged in company business may carry a pistol or revolver concealed without a license. There is no objection to this bill, which was passed by the Senate unanimously on February 24th and has already been favorably reported by the House Committee on Railroads.

Iowa

H. 55, defining a machine gun as any gun with a capacity of more than ten cartridges. No further report.

Kansas

S. 210, requiring a permit to carry firearms with a barrel less than twenty inches has now been killed.

S. 318, introduced by Senator Richard on February 16th transfers from the fire marshal to the Department of Inspection the responsibility for making a law to cover the storage, use, etc., of explosive material.

Maine

H. 676, regulating the carrying of firearms—the hearings on this bill originally scheduled for February 24th were postponed until a later date. We have not yet received a report giving the results of these later hearings.

H. 1079-1081-1083-1454, introduced by representatives Hurley, Lee, Pike, and Hawes, respectively—all relate to the hunting of skunks and raccoons, and all have been referred to the Committee of Fisheries and Game.

Maryland

H. 49, regulating the use of firearms by license under the age of 18 years was passed by the House on February 3rd and by the Senate with an amendment on February 25th.

Massachusetts

H. 450, prohibiting the sale of toy firearms, has been killed.

H. 1154, making it a criminal offense to carry a firearm with a defaced serial number, was reported favorably by the Senate Committee on Public Safety on February 25th and was given a third reading in the Senate on March 1st.

Montana

H. 69, revising the schedule of fees for hunting and fishing licenses, was passed by the House on February 8th but also reported unfavorably by the Senate Game and Fish Committee on February 26th.

Nebraska

Bill 93, regulating the use and sale of firearms. All members in Nebraska have received a special bulletin calling their attention to the objectionable features of this bill. When this report was prepared for publication it was impossible to foretell the probable disposition of this bill.

H. 94, revises the licenses fees for hunting and fishing—report of the results of the hearing on this bill has not yet been received.

New Jersey

A. 189, introduced by Assemblyman Freund on February 8th and referred to the Committee on Miscellaneous Business, clarifies that section of the present firearms code which covers the exemption of court attorneys from the necessity of securing a permit to carry concealed weapons. **The new language is a definite improvement over the present act.**

New York

A. 403, exempting applicants for licenses issued in New York City during 1937 from the requirements and investigation by police authorities, was passed by the Senate on February 10, and has been reported favorably in the House.

A. 529, limiting the capacity of shotguns in taking game to three shells, was passed by the Senate on February 15th.

A. 536, prohibiting the carrying of loaded firearms except pistols or revolvers, was passed by the Senate on February 16th and has been recommitted to the House Conservation Committee.

A. 546, amending the laws regulating the training of dogs was passed by the Senate February 15th and has been referred to the House Conservation Committee.

A. 689, regulating the use and possession of airguns, was reported favorably by the Senate Conservation Committee, and was given a third reading in the Senate on March 3rd.

A. 734, provides that firearm permits issued by the Nassau Chief of Police shall be valid in New York City, was reported favorably by the House Committee on Codes and was given a third reading on February 25th.

A. 779, providing for the revelation of hunting and fishing licenses in case of injury or death to another by gun fire—no further report.

A. 958, introduced by Mr. Stokes, February 10th, and referred to the Committee on Conservation, would make it unlawful in Schoharie County to use any rifle larger than .22 caliber rim-fire during deer season.

A. 1071, introduced by Mr. Mangano, February 15th, and referred to the Committee on Codes, prohibits the use of airguns or air-pistols in cities of one million population or over, and prohibits their sale within the state.

North Carolina

H. 35, the Revenue Bill was passed by the House on February 13th, and by the Senate on February 24th.

H. 243, introduced by Representatives Craig and Finch, providing for the registration and license of all pistols and revolvers in Buncombe County was referred to the Judiciary Committee No. 2, and was reported unfavorably by that group on March 3rd.

H. 384, introduced February 17th by Representative Paylor, provides for the registration of pistols and similar firearms by all owners in the state. This bill has been referred to the No. 1 Judiciary Committee.

This bill is definitely in the state and should be opposed by all members of the N. R. A. in North Carolina. It requires the registration of all pistols and revolvers with the circuit court within sixty days after ratification, and it also requires the registration of newly acquired guns within ten days after purchase. Unregistered firearms would be subject to confiscation. Do your bit to help kill this measure.

H. 385, introduced by Representative Flowers, February 17th, amends chapter 521 of the public New York laws of 1935 relative to automatic shotguns in Catawba County. This bill passed the House on March 3rd.

North Dakota

H. 87, sets new limits on certain types of game, has indefinitely been postponed.

Ohio

H. 215, regulating the licensing, sale of firearms has been reported as being permanently postponed.

This bill is definitely against the best interest of all Ohio shooters, and in the event of any adoption to revive it in the Ohio Legislature, **all N. R. A. members in that State should immediately take steps to kill it.**

H. 406, introduced by Representative Canfield on February 10th, would prohibit the killing of squirrels except by .22 caliber. This bill is now in the hands of the Conservation Committee.

Oklahoma

S. 251, introduced by Senator Munson on February 24th would prohibit the use of devices to silence the report of firearms. **This bill is in keeping with the provision of the National Firearms Act.**

Pennsylvania

H. 660, introduced by Representative Harkins on February 8th, would prohibit the sale and possession of B.B. guns and rifles.

H. 722, introduced by Representative Sarraf and others on February 8th, is similar to H. 660 above.

H. 846, introduced by Representative Moran on February 15th, and referred to the Committee on Game, would amend the present law by changing from 150 to 200 yards, the difference from any dwelling or highway in which firearms may be discharged without the consent of the owner.

S. 193, introduced by Senator Reed, and referred to the Judiciary Committee on February 8th, would make it unlawful for any person under 16 to own or possess air-rifles.

S. 212, introduced by Senator Fray on February 10th and referred to the Judiciary Senate Committee, would prohibit the manufacture or sale of any air-rifles.

Tennessee

H. 109, controlling the possession of pistols. No further report.

Texas

H. 223, introduced by Representative Mann on January 25th and referred to the Committee on Criminal Jurisprudence, sets the penalty for carrying concealed weapons.

Vermont

H. 21, revising the game regulations for taking fur-bearing animals, has now been passed by both Houses of the Legislature.

West Virginia

H. 120, regulating the carrying of uncased guns, was amended in the House on February 24th.

Wisconsin

A. 60, The Uniform Firearms Act, was reported unfavorably on February 25th and has been killed.

A. 62, specifying the types of arms which may be carried into the deer country—no further report.

FEDERAL BILLS

S. 3, the Copeland bill, was unanimously passed by the Senate on February 24th, and was immediately submitted to the House of Representatives for the approval of that body. Representative Ellenbogen (Democrat) of Pittsburgh has become interested in this measure, and will make an effort to push its adoption in the House in the near future.

When submitting their report to the Senate the sub-committee on Crime and Criminal conditions, which is headed by Senators Copeland and Vandenberg, stated that they had given much thought "to coping with the firearms situation and to studying the best practicable means of combating it. It is believed that the bill above referred to will go far in the direction we are seeking and will eliminate the gun from the crooks' hands, while interfering as little as possible with the law-abiding citizen from whom protests have been received against any attempt to take from him his means of protection from the outlaws who have rendered living conditions unbearable in the past decade."

The bill would regulate the use of firearms by prohibiting the shipment of pistols or revolvers through channels of Interstate Commerce on behalf of certain specifically designated groups of undesirables which includes persons who are under indictment, or who have been convicted of crime or violence or who are fugitives from justice. It is believed by officials of the N. R. A. that this is the most satisfactory method of attaining this objective. **The Bill meets the support of every law-abiding shooter in the country.**

Up to the present time no bills have been introduced in either body which would affect the shooting fraternity, and no further act has been taken on any of the bills covered in the March issue of THE RIFLEMAN.

H. 4725, introduced by Representative Kenny on February 15th would appropriate five thousand dollars to promote small arm

training for the Metropolitan Police force of Washington, D. C., and to provide for the conduct of a pistol tournament in that city. **The importance of pistol training for police officers is thus finally recognized in the Nation's Capital City.**

NEW LAWS

Alabama

H. Bill 161 amending Section 7 and 9 of the present firearms code, was approved by the governor on March 2nd. Under the new law permits to carry a pistol in a vehicle or concealed on or about the person may be secured from the Sheriff of a County, if the applicant has good reason to fear an injury to his person or property or has any other reason for carrying a pistol. The license fee remains at fifty cents and the license is good for one year from the date of issue.

Section 9 has also been amended to more clearly state the method of maintaining records of pistol sales by dealers.

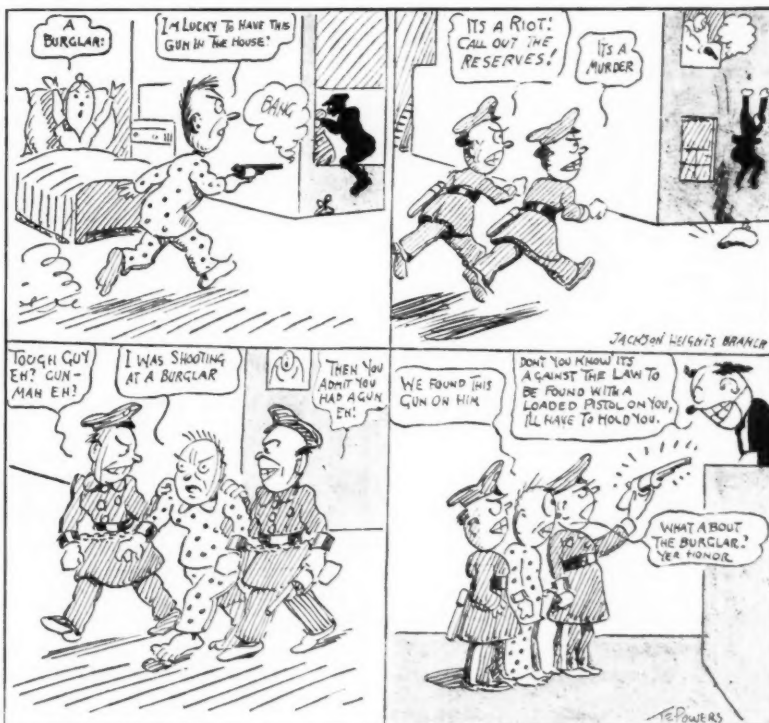
Maine

On March 3rd the governor signed the House Bill 446, thereby repealing Section 52, chapter 38 of the revised status covering the possession of firearms.

Tennessee

S. 401, a general act regulating hunting and fishing, was approved by the governor on February 26th.

Guns vs. Bandits



"The sad plight of a Jackson Heights resident who fired four shots at a burglar and then was arrested for violating the Sullivan Law," was illustrated in the above cartoon by T. Powers in the New York Evening Journal. In this particular instance the householder was held on \$500 bail to await sentence for his crime and the intruder escaped in the excitement.

At the annual New Brunswick Rifle & Pistol Club Shoot held in the city of New Brunswick, Sunday, Feb. 7th, 1937, Mr. Richard O. Berlin of the Orange Y. Rifle Club won first place honors for the high score for Tyro shooters, with a score of 500 X 500 N 38NS. The course of fire is fifty shots at fifty yards any sights.

The hard holding band of state Highway Patrolmen defeated twenty-nine other teams of California Pistol marksmen in the annual Lincoln Memorial Pistol and Revolver Matches staged on the Richmond Municipal Range.

They were followed in order by the San Francisco Traffic Patrolmen and by two civilian groups, the United Revolver Club and the Stockton Pistol Club. By a peculiar streak of luck the trophies awarded to the high teams in the three lower classes were all taken by teams from the host city. Richmond Police taking the lead in Class "C" while the numbers 1 and 3 teams of the Richmond Rifle and Revolver Club accounted for "B" and "D" respectively. Under the rules of the matches the total entries were divided as nearly as possible into classes with the same number of competitors.

The winners grabbed off an unbeatable lead of thirteen points in the slow fire stage where they turned in a score of 489 X 500. To this they added a 456 at timed fire and a 433 at rapid for a match total of 1378 X 1500. L. E. Hanson paced the winning team with an excellent 282 but this was overshadowed by the 285 fired by R. J. Miller of the San Francisco team and by the 283 credited to L. Mehegan of the Golden Gate Revolver Club. Mehegan's score included a slow fire possible. F. E. Drake of Alameda had a 97 at timed fire while C. J. Fraser of Golden Gate led at the rapid fire stage with a 94.

A special match was conducted over the slow and timed fire stages for feminine marksmen. The well balanced El Cerrito copped this event with an 863 total even though Gloria Jacobs and Dorothy Barnes of Oakland were the individual leaders with 190 and 183, respectively.

With the Sports Show at Navy Pier competing for attendance, the Cap and Ball Pistol match of the Hyde Park Y. M. C. A. attracted a very good crowd with thirty-eight entries.

The Remington predominated in all calibers from .31 up. Course of fire was ten shots at 25 yards, standard 50 yard slow fire pistol targets. Ten sighting shots were allowed.

The prize, a twelve pound turkey, was won by George K. Sage, Jr., Life member, shooting a .44 Remington. The ball was cast in a mould for the 45-70 Springfield, 15 grains bulk measure Kings Smokeless, balls lubricated by shaking in a box with a piece of Ideal Lubricant, barrel was brushed after five shots.

A good deal of information passed hands in regard to various loads for guns of this type. The shoot was not only interesting but instructive, and it was felt that all clubs could create real pistol interest by running matches of this kind.

U. S. Border Patrolmen led by George Parker stole the show in the first regional shoot of the Arizona Pistol Association staged at the Randolph park police range, February 7. Parker annexed the Tucson championship with an aggregate of 819, captured the silhouette event and placed in four other matches.

Team honors went to the Phoenix pistol club with a high total of 1,302. Eight organizations were entered in the team competitions. Pima pistol club No. 1 and 2, University of Arizona, Arizona Highway patrol, U. S. Border patrol, Phoenix police and Tucson police.

Forty-five contestants competed in the firings. High winds and intermittent showers held the scores down.

Nehi Rifle Club of Culpeper, Virginia, has changed their name to Culpeper Rifle & Pistol Club. The new Secretary is William D. Cannon, Culpeper, Virginia.

CLUB NOTES

The Roslyn Rifle & Revolver Club, Inc. will hold a general shoot on April 18, at the Roslyn outdoor range. Prizes will be merchandise, chickens and medals. Luck and skill targets will be used so that amateurs as well as the good shooters have a chance of taking home a prize. .22 caliber rifles and any caliber revolvers may be used. This match is open to the public at a nominal fee for each match entered. For further details write Peter Johner, Jr., Secretary, Box 331, Roslyn, New York.

The American Legion Rifle Club of Manchester, Connecticut, reports a most successful year during the past twelve-month period. They won the Charter Oak League and the Hartford County League Championships, dropping only one match out of the twenty-eight fired in the two Series. The club also participated in every rifle event sponsored by the Connecticut State Association as well as in the Rhode Island and Massachusetts State Shoots. Four club members were on the State civilian team at Camp Perry. They have the cooperation of their daily newspaper which once a week reserves for them a column devoted entirely to firearms news. The club is active summer and winter and is a 100% N. R. A. club in every way.

Raymond Brigaman of Cullison, Kansas, evidently had a great deal of fun from the crowd shooting contest staged in Kiowa, Pratt and Barber counties. When all the beaks had been counted he had 4,929 to his credit. Billy Kroger of Belvidere was a poor second with 979. The Greensburg Rifle and Pistol Club helped sponsor the event.

The Ordnance Rifle and Pistol Club, Inc., of New York, N. Y., in a fast shoulder to shoulder small bore rifle match defeated the Bell Laboratories Rifle and Pistol Club, of New York City, on February 24, 1937. The match consisted of twenty shots slow fire—ten on each of two targets—at 100 yards, prone, indoors. Any caliber .22 long rifle could be used and any sights. Number of competitors not to exceed ten on each team with five high to count. N. R. A. rules governed. The final score was Ordnance, 981 X 1000, Bell Laboratories, 947 X 1000.

SPECIAL NOTICE

The attention of all small bore target shooters is called to paragraph 6-1 of the Official Rule Book of October 15, 1936 which states that "the addition of a soft pad or of a firm guard, not more than three inches in width, in order to relieve the pressure of the sling is permitted."

Shooters who have equipped their slings with pads of illegal size are requested to cut them down to the legal width before firing in any matches conducted under N. R. A. rules.

The Thief River Rifle Club of Thief River Falls, Minnesota, reports greatly increased interest and enthusiasm over the shooting game in their vicinity during the past year. Their big bore range, suitable for shooting at all ranges up to 600 yards, is available to members of clubs in all neighboring cities. While they are awaiting the completion of a new municipal building which will contain a model indoor pistol and small bore rifle range, they have set up temporary shooting quarters in a local cafe.

The new range of the San Marcos (Texas) Rifle Club was dedicated on February 13, with an initiation match against teams from San Antonio and Austin. B. F. Thompson of San Antonio took individual honors by coupling a score of 47 offhand at 200 yards with a 49 prone at 300. Team scores were, Austin 460, San Antonio 457, San Marcos 446.

The women's rifle team of Drexel Institute in Philadelphia demonstrated their ability when they turned in a score of 498 X 500 to defeat the fair marksmen of George Washington University in a recent shoulder-to-shoulder match. Three Drexelites, Calhoun, Mueller, and Rose, fired possibles.

At the recent annual meeting of the United Services of New England, an association holding annual tournaments at Camp Curtis Guild, Wakefield, each year for the promotion of small arms practice, new by-laws were adopted and the membership was greatly increased to cover many classes not represented heretofore. The present membership consists of representatives of all branches of the services, all New England State rifle associations, civilian clubs, police units, bank guards and veterans organizations.

The officers include:

President, Maj. Gen. Walter E. Lombard.
1st Vice-President, Lt. Col. C. David Berg.
2nd Vice-President, Capt. Chas. J. VanAmburgh.
Secretary, John H. Pembroke.
Treasurer, Maj. George D. Crowell.

It was decided to hold the 1937 Tournament from August 7th to 15th inclusive at Camp Curtis Guild, Wakefield, and from all accounts there will be a great attendance at this tournament. All of the service teams that attended the tournament last year have expressed their desire to be present, and two other service teams it is understood will make an effort to attend. Contestants arriving at the Camp in August will be surprised at the great improvements which have been made since the last competition.

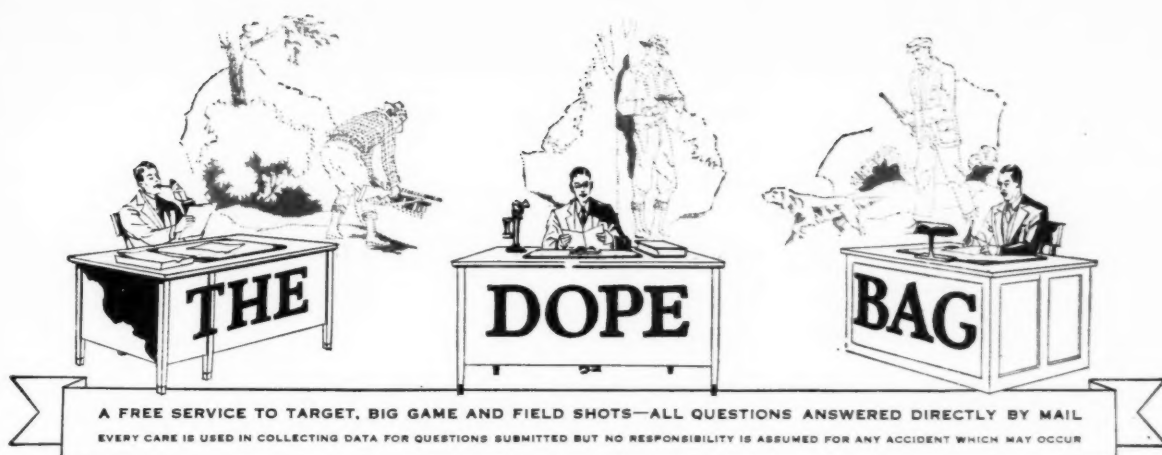
The Burlington Rifle Club, Burlington, Wisconsin, in their gallery match with the Menomonee Falls Rifle Club, on Jan. 31st, created two new records for the Southeastern Wisconsin Rifle Association. The team score of 1437 being a record for the league, and the score of 449 in the standing position being also a league record.

CHALLENGES

Any five-man team (all from one family) in the United States. Conditions, 50 feet, twenty shots, prone, for record, iron or scope sights. Erling O. Bergerson, 2915 North Washington Street, Tacoma, Washington.

Any rifle or pistol team within 100 miles of Cincinnati. A shoulder-to-shoulder match on our range or yours, conditions to be arranged. Kentucky Pines Rifle and Revolver Club, Philip P. Sieber, Secretary, 227 Levasseur Place, Covington, Kentucky.

Any two-man team, not less than 50 shots not more than 100 to be shot at one time with 4-minute time, at 50 feet offhand, iron sights only. We both average better than 90. Write Melville L. Flayer, 32 Taber Avenue, Brockton, Massachusetts.



Conducted by F. C. Ness

Theoretical and Practical Patterns

WE KNOW that a given full-choke bore will do its closest shooting with some certain loading or cartridge, and that a given choke will give better patterns with big shot than with fine shot or vice versa. In theory a certain muzzle constriction should give full-choke patterns, but in practice we may not find a suitable load which will do this unless we can afford to conduct an exhaustive elimination test. Therefore in practice we buy two or three loads of a type suitable for our full-choke shooting purpose and use them blindly by trusting to luck, or we may give them a preliminary test on paper but have to take what we can get. We do this outdoors when we can and regardless of weather conditions.

In practice we generally use our loads in cold windy weather and try to land the shot charge on the definitely located and relatively small area of our game. To approximate these practical conditions I like to test my field loads in the full-choke barrel at 40, 50 and 60 yards on a two-foot square of paper with a game-size aiming patch in the middle. Such a target contains sixty-four 3-inch squares and the gunner can quickly determine how many hits per square, how many in his central game-size aiming patch and how many squares have been missed by his shot. Sometimes only the ragged edge of the pattern registers on such a small target, but this happens to be true also, only more so, in game shooting, and in clay-bird shooting.

In theory we gauge our full-choke performance of load and gun by patterns obtained under ideal conditions, which is a way of kidding ourselves. We want a

warm, still, slightly-humid day outdoors, if we lack a comfortable sheltered range indoors. In hunting season on a cold day the same combination of bore and load may fall off five or six per cent in its patterns.

Also we are very careful to get the very best part of our pattern by shooting on large squares of paper and then circumscribing the most dense portion of the pattern with our 30-inch circle. This is another way of kidding ourselves.

We count the hits in that 30-inch circle even along its boundary line and divide the total number of hits by the number of pellets which is standard for the weight of load and size of shot stamped on the cartridge box or on the top wad. Here too we sometimes kid ourselves, because the shot are sometimes slightly sub-size or the weight of load slightly abnormal. In fact we have found in counting pellets that most loads run a score or more pellets above and over the standard count. This actual count of pellets in the load gives the true percentage although it may not place the full-choke barrel in such a favorable light as compared with the accepted standard count.

Some other theories which seem sound and are practical enough do not always pan out in cold-blooded practice. One of these relates to shooting short shells in long chambers. In theory, shells slightly longer than the chamber tend to close up or improve full-choke patterns. Conversely, shells shorter than the chamber tend to scatter the shot more and open the patterns of a full-choke barrel. As a matter of fact most of our best patterns in several barrels and in two gauges and

with several chokes have been obtained with 2-9 16-inch and 25 $\frac{1}{4}$ -inch shells in 23 $\frac{1}{4}$ -inch chambers. Also our only 70% pattern-average and our best individual patterns have been obtained in cold weather with snow on ground, which is contrary to the promise embodied in the temperature theory.

Another theory is that a spread of 14 or 15 inches at 20 yards will indicate a full-choke pattern. We had an average of 70% for 5 shots in the original M-31 Remington at 40 yards for which the 20-yard spread averaged 21 inches with the same load. The dense center was 16 inches at 20 yards. Another load in this barrel with the Poly Choke set on "Full" averaged 15-inch dense centers and 21.8 inches extreme spread at 20 yards, but the 40-yard average with the same combination was only 58%. Another 16-gauge with Cutts Compensator averaged 14 inches for its dense centers and 20 inches extreme spread at 20 yards with two loads, but at 40 yards the No. 6 chilled shot gave from 57% to 64% patterns, while the load of No. 7 $\frac{1}{2}$ made from 55% to 57%. Twenty yards is a convenient range useful for comparing loads or chokes in the same barrel, but not dependable for establishing percentages. We tried the best Poly Choke adjustment at 20 yards and in a 20-inch circle got 356 out 365 pellets of No. 7 $\frac{1}{2}$ chilled shot and 233 No. 6c out of the 257 pellets counted in the load. At 40 yards all of these did not find a proportionate 40-inch circle, some of them curving off our four-foot paper. Another load of No. 7 $\frac{1}{2}$ chilled, which counted 443 pellets, had 384 of them in a 20-inch circle at 20 yards.

This Poly Choke with an ounce of No. 7½ chilled went as high as 91% in the 30-inch circle at 30 yards and up to 87% at 35 yards. The best it would do at 40 yards was 64% in cold weather. It may do better in hot summer weather or with some load not included in the many brands and types already tried.

With our improved Poly Choke on this same barrel our best average was 51% at 40 yards, obtained with 1½ ounces of No. 6c in the No. 2 (Improved Cylinder) choke. Our next best was 49% with an ounce of No. 9 chilled in the No. 4 (Modified) choke. With an ounce of No. 7½ chilled shot our best average was 48.5% obtained in the No. 6 (Full) choke. We counted the pellets; had we used the standard count the percentages would have been appreciably higher.

To wind up this test we bought some 16-gauge loads containing 1 ounce of No. 7 chilled and set the Poly Choke on "Modified." At 40 yards these averaged 121.5 hits in a 30¼-inch circle drawn around the dense part of the pattern. By Askins' count of 291 the average was 41.4%. By actual count these loads came close to the standard count (299) with 308 pellets, which, however, lowered the true percentage to 39.4. We like this Poly Choke as it is for close-range work or open-pattern purposes. For long-range or full-choke purposes we are still in doubt and we will have to wait for further test or until some favorable combination of circumstances or conditions will make it produce full-choke patterns.

In this 16-gauge gun the original full-choke barrel averaged 70% for our usual five patterns at 40 yards. The load was 1½ ounces of No. 7½ coppered shot in a short case (2-9/16 inches). The low in the 30-inch circle was 261 pellets and the high was 283 pellets, which shows uniformity. In the 26-inch circle these five patterns ran: 265, 244, 246, 236 and 236 hits.

Recent 12-Gauge Experiences

At 20 yards we got open-bore spreads with the full-choke barrel of our first sample, No. 4052, Model-90 Marlin, which is a somewhat rough (as to action) over-under shotgun but an exceptional value at its extremely low cost. Sears Roebuck lists it at less than \$30.00. At 40 yards our 5-shot averages in the full-choke barrel were disappointing.

Western Expert in a short case (2½ inches) gave the highest count which was 297 in a 30-inch circle. Since we counted 687 pellets in the load this meant only 47.5%. The load was 1½ ounces No. 9 chilled. The next best average was 45%, also made with a 2½-inch shell. This was 1½ ounces No. 6 chilled in the Winchester Repeater case.

The average extreme spread at 20 yards for these two loads was nearly 25 inches and nearly 21 inches, respectively. In the 20-inch circle at 20 yards we had 421 hits out of the 455 pellets counted in 1¼ ounces of No. 7½c. 1¼ ounces No. 6c had 266 hits out of 276 pellets, and 1¼ ounces of No. 4c had 165 hits out of 169 pellets at 20 yards. Clearly more than 50% of this shot strayed out of the pattern somewhere between 20 yards and 40 yards, very probably in the last few yards of the longer range.

Afterwards the factory used this same barrel with 1¼ ounces of No. 7½ chilled and for three shots at 40 yards outdoors their average was 300 hits in the 30-inch circle. Using the standard count of 431, that would make practically full-choke performance, or 69.6%. We prefer to count pellets in the shot load, because of frequently encountered variations from standard. Our last count of the above load (1¼ ozs. No. 7½c) was 455 pellets, which would reduce a 300-pellet pattern to 65.9%. However, in actual field work, at the traps or on ducks the average sportsman would be far better served with a 65% pattern than with the closer 75% pattern, and for upland game or Skeet even 65% is too close shooting for the best results or greatest effectiveness.

With the second sample M-90 Marlin (No. 3769) we had our best 40-yard average with the lower or "Modified" barrel. With 1¼ ounces No. 4c this averaged 53% and spread 25 inches at 20 yards. The top or "Full-Choke" barrel with the same load averaged 48.6% and spread 23.5 inches at 20 yards. This barrel also averaged 48.6% with 1¼ ounces No. 7½ chilled which spread 22.3 inches at 20 yards. This load averaged 46.4% in the lower barrel and spread 26 inches at 20 yards. Both of these loads which gave the best averages in the full-choke barrel were in 2¾-inch cases. In this gun we had a few "blown" patterns with the 2½-inch loads which had performed best in the first sample, No. 4052. In the 20-inch circle at 20 yards we had 148 hits out of 169 pellets with the best load of No. 4c and 404 hits out of 455 pellets with the best load of No. 7½c.

We continued our experiments in the search for more suitable loads for the full-choke barrel and finally found them. With Federal Hi-Power 2¾-inch cases containing 1¼ ounces No. 6 chilled we got an average of 159 hits at 40 yards. By Askins' figure of 272 pellets it is 58.4%. By the standard count of 279 it is 57%. By actual count of the shot load we got an average of 278 pellets which checks with the standard count. We also found Western Expert and Western Field loads to agree closely with the standard pellet count. We used the standard count and a 30¼-inch circle to give

the bore every benefit possible with these 2¾-inch shells. The Western Field with 1¼ ounces of No. 7½ chilled averaged 63.5% at 40 yards, and the same load in Western Expert cases averaged 60.6%. All the shooting mentioned in this paragraph was done at noon on February 26 when the temperature was only a few degrees above freezing. Possibly the best load in this full-choke Marlin barrel would reach 70% on a warm spring day.

RIFLED SLUGS IN THE CUTTS AND POLY CHOKES

BACK in 1931, Karl M. Foster invented the rifled shotgun-slug for deer hunting. Since then, as brought out from time to time in his articles in *THE AMERICAN RIFLEMAN*, he has developed his rifled slug to a state which makes it superior to anything we have had in the past. Winchester became interested and Mr. Foster turned his dies, ideas and services over to them. We tried, for the Dope Bag, some of the first Winchester-Foster rifled-slugs which were made with Foster dies and loaded by Winchester. More recently the wax filler was left out of the hollow base on Foster's suggestion, and improved results followed this change, especially in 12 gauge. We have just finished some shooting tests with these latest slugs made in Winchester dies.

In our first test with the wax-filled slugs, as reported in the July Dope Bag last year, we used a peep-sighted M-28 Savage trap gun with Cutts Compensator. Because the slug was a push fit in it we selected the .725-inch tube for our target test, which was fired from prone rest. We also tried the .705-inch tube. At 50 yards both gave 10-shot groups of 8¼ inches. The .705-inch tube had 8 shots in 4 inches and it was tried also at 100 yards. At the longer range the dispersion was practically five times the 50-yard spread, the 10-shot group being nearly 40 inches with eight shots in nearly 20 inches.

Yesterday we tried the improved Winchester rifled-slug load in this same shotgun. Four improvements must be noted. The slugs were made in factory dies in place of home-made dies. The wax filler was omitted. The gun was equipped with the Belding & Mull Hunter scope sight. The test was made from bench rest instead of from prone rest as formerly. To foul the bore and the .725-inch tube we first fired a few shots for elevation dope. There was no leading.

At 50 yards two 12-gauge slugs missed the target. Eight made a group of 12¼ inches. Seven of them spread 7¾ inches, center to center. The group was too large for a test at longer range. We therefore tried the .740-inch tube and the five shots at 50 yards measured 5¾ inches, four of

them in $3\frac{3}{4}$ inches. This exhausted our supply of 12-gauge slugs so we could not try them at 100 yards. However, we had a larger supply of the rifled slugs in 16 gauge.

At the factory a standard cylinder-bore 16-gauge M-12 shotgun was used with its regular sights. Rifled slugs were fired through a screen at 50 yards and the same group was caught at 100 yards. Only five shots were fired per group. The first group measured 3.8 inches at 50 yards and 9.73 inches at 100 yards. The second group was $5\frac{1}{4}$ inches at 50 yards and $11\frac{1}{4}$ inches at 100 yards. These results indicate a normal increase of spread may be expected when the range is doubled, up to 100 yards.

We expected better results in the smaller gauge. Our 16-gauge rifled-slug loads of latest Winchester Super-Speed type were fired from bench rest in a peep-sighted M-31 Remington equipped with Poly Choke. For check we fired the first 10-shot group at 100 yards through a screen at 50 yards. See the pictures. The two low shots out of the normal group were the first and last shots. The other eight shots made a group of $3\frac{3}{4}$ inches, center to center. All ten shots measured $6\frac{1}{8}$ inches. At 100 yards the same 10 shots measured $13\frac{1}{4}$ inches and the normal group (8 shots) was $7\frac{1}{4}$ inches. This increased spread checked perfectly with that obtained between 50 yards and 100 yards at the Winchester factory. The full open adjustment of the Poly Choke was used.

We continued our shooting at 50 yards with the Poly Choke set on "Improved Cylinder" and we had practically the same results. The 10-shot group was $5\frac{3}{4}$ inches with 8 shots again in $3\frac{3}{4}$ inches. The first five shots, however, went into $2\frac{1}{2}$ inches which is exceptionally good. Next the "Modified" adjustment was tried, and the spread increased to $7\frac{1}{8}$ inches for 10 shots, with 8 shots in $5\frac{1}{4}$ inches. The first five shots made a $6\frac{1}{2}$ -inch group. The full-choke setting further increased the spread by causing a flier which enlarged the 10-shot group to $18\frac{1}{4}$ inches. The other 9 shots went into $6\frac{5}{8}$ inches, and the first five made a group of $5\frac{3}{4}$ inches.

This was the most consistent shooting I had seen with any smooth bore and single-missiles. Other five-shot groups with this Poly Choke set full open measured $3\frac{3}{4}$ inches and $9\frac{1}{8}$ inches from bench rest at 50 yards. A group was also tried from sitting at 25 yards. These five shots measured $3\frac{3}{4}$ inches. Apparently the open bore is best adapted for accuracy with the rifled slug.

These Winchester rifled slugs are adapted for any shotgun which is adapted for duck loads in the same gauge. They

may be fired in the tightest full-choke without injury to the gun or shooter, reports from some quarters to the contrary notwithstanding. The one we measured in 16 gauge was .650-inch in maximum diameter and .642-inch in minimum diameter. It weighed 356 grains. As loaded by Winchester they are very powerful, developing 1436 f.-s. at the muzzle. The remaining velocity at 100 yards is 1100 f.-s. The pictures below relate to our tests of these slugs in the Poly Choke.



A close-up of the mid-range screen showing the first ten shots in the 50-yard target



Shooting at 100 yards through a screen placed 50 yards from the muzzle

THE JORDAN MULTIPLE RELOADING PRESS

FOR the past few weeks we have been using a Jordan Reloading Press for preparing our .30-'06 handloads. Some of the interesting features of this tool are the very sturdy construction, the vertical

straight line principle and ample power provided for full-length sizing of large bottle-neck cases. Also that the tool is continually set up for two cartridges at one time. Handloads may be prepared with one set of dies without losing the adjustments of the other. This is on account of the unique arrangement of the Jordan press.

A large (enameled) cast-iron base, 6 inches in diameter, supports a $1\frac{1}{4}$ -inch vertical shaft or post. Slidably mounted on this shaft is a large turret $3\frac{3}{4}$ inches in diameter and $2\frac{5}{8}$ inches deep, which is connected by a powerful toggle to a metal operating lever $13\frac{1}{4}$ inches long. This lever is fastened to the top of the upright shaft and rests in a vertical position when the press is open. It travels through an arc of about 120 degrees to move the turret $2\frac{3}{4}$ inches on the shaft, the movement required to close the press. There are six ports or stations in the sliding turret, three for each cartridge, for holding the resizing dies, primer and bullet seaters. Between this turret and the cast-iron base is another $3\frac{1}{4}$ -inch, cylindrical, metal unit fastened to the upright by a large taper pin. This is the header unit with six stations for the various types of shell-head equipment.

In operating the press a case is placed in the header under the resizing die. This die is made in two parts, the lower part of which is the floating-sleeve type. It engages the case and guides it into the upper necking die. This necking die fits snugly in the throat of the lower body-sizing die, thereby holding the case in alignment for both neck and body sizing. The sizing die is adjustable to give any body-size ranging from a loose fit to the maximum size of a fired case. The fired primer is ejected and the case neck is expanded during the resizing operation.

The sized case is next placed in number two station for primer seating. The primer seating punch along with the primer seating sleeve, which latter is recessed to accept the cartridge head or rim, are located in the header unit. With the primer and case in position the operating lever is closed, causing a plunger (in the sliding turret) to pass through the case neck. As the plunger engages the inside of the case head it forces the case and spring-backed seating sleeve down on the stationary seating punch. Thus, instead of forcing the primer into the pocket, the case is pressed over the stationary priming punch and primer.

For bullet seating the case is placed in number three station. The press is closed about half way until the case engages a sliding, floating sleeve. The bullet is then dropped into the floating sleeve through a port or slot in the turret. The press is now completely closed, seating the bullet.

Because the floating sleeve guides the bullet into the seating die the bullet is held in alignment with the case.

The dies of the Jordan Press are all equipped with special, spring, lock nuts which arrangement permits removal of the dies without losing the adjustments. Any number of different dies for various rifle or revolver calibers may be used with the press as they are interchangeable. All bearing parts of the Jordan Press are properly hardened to insure added strength and longer wear. The sizing dies are all lapped and honed after hardening, giving them a smooth even finish. With each set of high-power-rifle dies a Jordan Neck Trimmer is included. This trimmer, in appearance, is much like a small pencil sharpener. It has a lag screw in the base for fastening to the work bench. The neck of cases to be trimmed is inserted in a sleeve of the proper size. The case shoulder serves as a stop, thereby insuring a definite fixed neck length. The inside of the case mouth is chamfered at the same time.

A Jordan bullet sizer and lubricator may be attached to the reloading press by removing the bullet seating die and the header directly under that station. The lubricator is threaded to fit in the die holder. Bullets to be sized and lubricated are dropped into the sizing die through the slot in the turret used in connection with bullet seating. A plunger in the header unit forces the bullet through the die and lubricator as the press is closed.

We found the Jordan press very easily adjusted and operated. It is fast enough for any purpose, with the possible exception of production reloading. Also the principle of keeping the cartridge case in direct alignment with the various dies in each operation is a very desirable and important feature to any reloading tool. Reasonable care should be exercised while adjusting the full-length sizing dies for bottle-neck cases so as to insure the proper body length. A case sized too short definitely means excessive headspace, thereby making a dangerous rifle out of an otherwise safe one. We purposely sized some .30-'06 cases to 1.395 inches body length, this being just .006 inches shorter than fired cases taken from a rifle. These cases would stick in the chamber with perfectly safe and normal loads. This did not happen when properly sized cases and much heavier loads were used in the same rifle.

The Jordan Multiple Press is a product of the Union Auto Specialties Company, Brookville, Pennsylvania. It is in the \$30.00 class set up for two calibers and including the trimmer. The bullet sizer and lubricator is an extra.—A. H. BARR.

THE HALL LOADING TOOL

SOME time last fall we were informed by Fielding B. Hall, 1322 Montana Avenue, Los Angeles, California, that we could expect one of his loading tools. This tool finally arrived with a complete set of dies in .30-'06 caliber. In unpacking this reloader we found a tool of larger proportions than any we had used before. This, however, is not a detriment to good handloading. In some ways the Hall tool resembles the B. & M. reloading tool, except for full-length resizing. All parts of this tool are of either cold rolled or tool steel, except the cast legs (3 inches high) which are permanently fastened to the four corners of the base. Provision is made in the bottom of the legs for securing the tool to a work bench.

The Hall tool is built along the lines of a lathe with adjustable head stock, tail stock and a large ($1\frac{3}{4} \times 1\frac{7}{8} \times 2$ -inch) sliding block that is supported by two rails or tracks $\frac{1}{2}$ inch thick, $\frac{7}{8}$ inch wide and 18 inches long. The resizing die and shell holder are held in position in the sliding block by means of four bolts through the two sections of this block. The front stock or die holder is threaded to accept the neck expander and bullet seater. The decapping stem, which also is used to drive the case out of the sizing die, is placed in the rear die holder. The recapping punch is so designed that it may be used to swedge out primer pockets when clinched-in primers have been used. The tool is operated by a large 24-inch lever located near one end of the base or rails. The long lever provides ample power for the full-length sizing operation.

Much time can be saved in using this tool by putting through each operation a number of cases at one time, for it is necessary to change the parts for different operations. The tool is well constructed and capable of turning out very accurate handloads. One interesting feature of the resizing die is the three small vents at the neck to prevent the case from denting when too much oil or grease is applied to its surface before resizing. This die is of correct length to be used as a case length gauge. When the case head is flush with the face of the die the case neck should also be even with the opposite end. If the case is longer than the die it should be trimmed to the proper length before using again. All bottle-neck sizing dies for the Hall tool are made by toolmaker F. K. Elliot and are guaranteed to size the shells correctly without possibility of increasing headspace. The tool may be adjusted to neck-size only, using the same sizing die.

This straight-line loading tool is in the twenty-dollar class, when furnished with complete set of dies for any one cartridge. It is made up for both rifle and revolver cartridges. Mr. Hall sells many other shooter's accessories.—A. H. BARR.

NEW INSIDE NECK-REAMER

UNDER the subtitle, "The .220 Swift," second paragraph, on page 48 of the February Dope Bag the correct (and our intended) statement would have been "— the Wilson shell trimmer and *Sweany* inside neck-reamer." We owe an apology to L. E. Wilson, Cashmere, Washington, and to our readers, for leaving out that vital qualifying word, "Sweany." While duly sorry for the burden of extra correspondence we unwittingly placed on Mr. Wilson's shoulder we cannot help feeling glad the error occurred, because it is responsible for a new and very desirable Wilson reloading gadget just being placed on the market as a measure of self-defense by L. E. Wilson.

The Wilson neck reamer now being marketed for the first time, is a five-dollar extra for the Wilson Universal shell trimmer. It is a finger-operated reamer for the inside of the case neck, and, in use, it replaces the crank-operated end-cutter of the shell trimmer in the cutter guide. The inside reamer is designed for use in case necks as expanded from firing in the rifle chamber, and it should not be used on case necks after they have been sized. The one we have just tried was, of course, made for the .220 Swift case, in which the brass tends to flow forward on firing to thicken the neck at the mouth, evenly but tapered and thickest in front. The reamer takes out just enough metal to insure the average neck-clearance, normal for the cartridge, which in this case is from .0025 to .003 inch.

Inside the guide or holder the new reamer has a very short bearing length which is about one-half inch. At first glance this appears to be wrong, but its useful purpose is to serve as a universal joint or a floating contact in order to permit the reamer and case mouth to assume an accurate co-alignment. Our experience indicates this is true. The flow of brass happens to be very evenly distributed inside the neck and at the mouth of the .220 Swift case. However, this new reamer also worked on our fired cases in the .22 Hornet caliber.

These Wilson inside-reamers have the distinction of having created a great and widespread interest before any were conceived, made, or announced, thanks to my inadvertent implication in the February Dope Bag. In fact, the very first pilot model was not made before the fifteenth of that month. It is being announced for the first time, here, in this April issue of THE AMERICAN RIFLEMAN. They are not a regular part of the Wilson shell trimmer, but they are a very desirable auxiliary, or extra part, adapted for use on that tool. Special conditions, such as tight-neck target chambers which require minimum di-

mensions for equal clearance, should be specified. In our .22 Hornet cases the .220-Swift reamer removed too much metal showing clearly that different conditions call for different dimensions. However, it did an accurate and uniform job resulting in an even neck-tension for all cases.

With our new neck reamer we obtained a new Wilson cutter for neck trimming which takes modest trimming amounts of brass off the end of elongated cases with greater ease on account of its sloped cutting edges, set at angle to give it "top rake."

Wilson Headspace Gages

While on this subject, I want to also mention the Wilson cartridge gages and headspace gages which we first announced in these columns many months ago, because I consider them important. The standard, steel head plugs for gauging .30-'06 rifle chambers and actions as made by Wilson are the best to be had anywhere and his prices are lower than normal. Every rifle club should have a "No-Go" (1.946") headspace gage.

Wilson also makes a throat-erosion gage for .30-'06 rifles and the more generally useful cartridge gages. These latter are in two types; there is a fixed or arbitrary length-gage at less than five dollars and a more expensive micrometer gage which measures the cone-to-base length in thousandths of an inch. These .30-'06 cartridge gages are useful in connection with full-length shell resizing, because it is important to avoid increasing the effective headspace through excessive reduction of the head-to-shoulder length of rimless cases, and such Wilson gages are the only means of determining such dangerous discrepancies.

NEW MOSSBERGS, RIGHT AND LEFT

O. F. MOSSBERG & SONS of New Haven, Connecticut, pioneers in the field of low-priced training rifles equipped with proper sights and good stocks, have made another progressive step in rifle manufacture. They are the first



Showing how our five-target quick-fire game for double-action revolvers is conducted. Frank Wyman shooting. Scofield and Barr timing

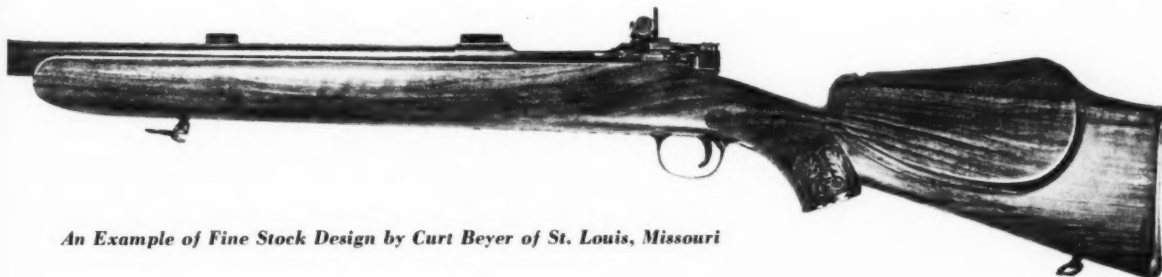
American manufacturers to place a line of low-price, left-hand, bolt-action rifles on the market for the portsider. Four of their better models, with improved "Master" action, are now available with left-hand action, receiver and scope sights. These rifles are priced within the reach of any left-hand rifleman as they cost but a few dollars more than the right-hand models. The left-hand Models L42A and L43 are clip loaders of 7- and 8-shot capacity. L45A and L46A have tubular magazines holding 15 Long Rifle, 18 Longs or 22 Short cartridges. One of the left-hand L43 Models and one 46A with right-hand bolt were sent in for examination.

The dimensions of the oil-finished stock on the L43 are very good. This stock has a cheek rest and beavertail forearm of generous proportions. The corrugated steel buttplate is 13¼ inches back of the trigger. The latter is adjustable for a light or heavy pull, by an outside screw located in the stock just ahead of the trig-

ger guard. The L43 is equipped with a special 17A front sight and a Lyman 57M receiver sight with ¼-minute click adjustments. The 1¼-inch sling swivels are the quick-detachable type with a four-position plate in the forearm for variation of arm length. The L43, with its heavy 26-inch barrel, weighs 8 pounds. The barrel is a straight .781-inch diameter.

This rifle should make an excellent target-training rifle although the accuracy is not fine enough for serious competition. In our test this rifle did not group as close as one of the Mossberg Model-35 single-shot rifles. With the Lyman sights on the L43 our average for 50 shots with Super Match was 1.46 inches, while precision averaged 1.38 inches for 50 shots. These groups were fired from bench rest at 50 yards. The clip magazine can be removed by the coach to make this rifle a safe single-shot for boys in training.

The 46A rifle is equipped with a good walnut stock, corrugated steel buttplate



An Example of Fine Stock Design by Curt Beyer of St. Louis, Missouri

and quick-detachable swivels. The four-position swivel plate and adjustable trigger pull are missing on this model. Its heavy 4¼-pound trigger pull is not nearly as good as that of the L43. The straight-line magazine feed proved reliable with Shorts, Longs or Long Rifle ammunition. This rifle came equipped with the Mossberg No. 4 Micro Click receiver sight with No. 4A selective aperture and No. 2 ramp front sight. The rifle with 26-inch barrel weighs 7¼ pounds. Our best groups with the 46A were obtained with Super Match. At 50 yards 30 shots averaged 1.36 inches. Thirty shots with W.R.A. Staynless averaged 1.58 inches. The tubular magazine makes this rifle undesirable for training purposes.

Both of the above rifles have the improved Mossberg "Master" action which is much better than the action of former models. The thumb safety, conveniently located at the rear of the receiver, operates directly on the trigger. The quick lock-time is a desirable feature. These rifles all self cock on the opening stroke. The hardened wearing surfaces make them smoother in performance and insure longer wear as compared with former Mossbergs. The bolt and grooved trigger are chrome plated. Both rifles are drilled and tapped for the Mossberg scope mounts.—A. H. BARR.

A NEW WINCHESTER CARTRIDGE

The Super Speed .219 Winchester Zipper has just been announced. The case is of the general shape and size of the .25-35, but its .22-caliber bullet makes it a factory-produced or standard-cartridge equivalent of the .22-Niedner Magnum. It is regularly made with two weights of hollow-point jacketed bullets, the 46-grain bullet at 3420 f.-s. and the 56-grain bullet at 3100 f.-s. at the muzzle of the 26-inch barrel. The muzzle energy for both these cartridges is 1195 ft.-lbs.

The remaining velocity at 100 yards is 2590 f.-s. for the lighter bullet and 2492 f.-s. for the other. The midrange (at 50 yards) trajectory over 100 yards is 0.46 inch for the 46-grain bullet and 0.48 inch for the 56-grain bullet. It is expected that these light bullets will lose their velocity and energy too quickly to be effective at ranges beyond 200 yards. Such loads, within the limits of their accuracy-and-power range, are adapted for varmints, such as coyotes, woodchuck, hawks, owls and crows.

The purpose of the new cartridge is to provide a light-recoil, flat-trajectory load for lever-action deer rifles and one with sufficient accuracy for hitting small-game. The rifle made in this new Zipper caliber is a special version of the Winchester Model-64 Deer Rifle, commonly issued in

.30-30 caliber. In the .219-Zipper caliber the M-64 rifle has a 26-inch barrel and a receiver peep sight like that on the Model-71 Winchester lever-action rifle. About 5-clicks elevation is required from short-range (50 to 100 yards) for the 200-yard zero. The free recoil is less than 2¼ ft.-lbs. with the 56-grain load and less than 1¾ ft.-lbs. with the 46-grain cartridge.

We hope to be prepared with target tests in time to give a report on its accuracy up to 200 yards in the next Dope Bag. We have also sent our Krag rifle to R. F. Sedgley for conversion into this new .219-Zipper caliber for our experiments with handloads, using various bullets.

MISCELLANEOUS

Wide Whitex Better. A ⅛-inch Whitex sight was installed on our Colt Shooting Master revolver. We prefer this wide sight to any of the narrower Whitex sights that we have used. On the first offhand test our score average was 87 for 40 shots at 50 yards on the Standard Pistol target. Two different handloads were used for this average. This, though the large Shooting Master grip does not fit our fairly small hand any too well and it had not been used for some time previous to this shooting.

The Whitex is a practical all-purpose sight. The dark wide post between the white sides shows up clear and jet black on paper targets and in field shooting. It is made by R. J. Tapphorn, 115 Crescent Court, Louisville, Kentucky.

Dex-Kleen Wipers are prepared and sold by Decker Brothers, 209 N. Federal Avenue, Mason City, Iowa. These handy wipers are merely small (4½ x 7 inches) oval-shaped pieces of sheepskin, the wool side being saturated with enough Rig rust inhibitor for a year's use. We find them very useful for wiping guns, reloading tools or any other equipment that is likely to rust. These wipers have been used for more than a year by Decker Brothers in the large gun department of their Sporting Goods Store. They sell for 25 cents each.

Aluminum Bullet Trays. Mr. H. E. Lacy, President of Helmeo, Inc., 844 W. Jackson Blvd., Chicago, Illinois, sent us three assorted containers similar to those he uses for storing cast bullets. These are flat, round, seamless, aluminum pans, 1¼ inches deep with snug-fitting, thick covers of the same material. The large tray is 11½ inches in diameter and the smallest 6 inches in diameter. The large size will hold about 750 .38-caliber bullets or twice as many of the shorter wadcutter bullets of the same caliber. These trays are also useful for lubricating bullets in connection with the cake-cutter method of lubrication. The thickness of the metal used

in their construction permits stacking them in tiers or layers. They could probably be more conveniently stored were they rectangular in shape.

Mr. Lacy informs us that should a sufficient number of shooters become interested in these trays they could be manufactured to sell for one dollar.

An Excellent Cleaning Rod was received from W. F. Vickery, gunsmith of 1021 Hayes Street, Boise, Idaho. This polished, high-carbon-steel rod is a good value at \$1.25. They are made up in two sizes. The .22-caliber rod is .203 inch in diameter. The .234-inch size is made for .25 and .30-caliber bores. Several good features are incorporated in the handles of these cleaning rods. A ¾-inch fiber tip on the front end prevents marring the muzzle or receiver while cleaning the rifle. Extra tips and brushes can be carried in the hollow steel handle, which has a threaded cap on the end. A single steel ball bearing is located between the handle and back end of the rod to permit free turning of the rod in the rifle bore. Our .30-caliber patches on the short ringed tip gave a snug fit in the rifle bore.

Pacific Powder Measure. We have the first one of these foolproof fixed-charge measures that was turned out in production by the Pacific Gun Sight Company, San Francisco, California. A 1½-inch cylindrical brass plug through the cast base has a drilled hole for the fixed powder charge. This curved cutting-edge principle has been used with success in other measures. The powder charge is carried from the brass hopper to the discharge tube by rotating the protruding, knurled end of the charge plug one-half turn. A hopper cover is not furnished with the measure as best results are obtained with uniform powder level and the open top permits frequent inspection.

The Pacific measure is made for Hornet and revolver charges. We were pleased to note the fine degree of accuracy possible with the Pacific and these light powder charges. The sample measure gave an extreme variation of only .15 grain with duPont No. 80 and Hercules Unique. The variation for Bullseye was even less, or .10 grain. We used the Brown & Sharpe No. 980 scale for this test. Our measure gave charges of 2.8 grains No. 80, 2.9 grains Unique and 3.0 grains of Bullseye. These measures sell for \$4.50 with the charge cylinder drilled for standard charges which are approximately 2, 2½, 3 or 3½ grains. One dollar labor charge is made for any other specified powder charge.

The Burgess Tacker (Model WL-191) is a handy machine for fastening targets to wooden or composition target frames. A lever-operated, spring-backed plunger supplies the power for seating the wire staples which are automatically fed into

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a slot under the flat, hardened steel, driving head of the plunger. A hinged, spring-latched nose-cover can be quickly opened to free the machine of an occasional jam that can be expected with this or any other stapler. We did not experience a single jam while using one of these tackers. Targets are readily removed from the frames by prying out the staples with any pointed or wedge-shaped piece of metal.

The Burgess staples furnished with the stapler are machine fitted in strips of 125 staples, this being the correct quantity for loading the machine. The Burgess tacker is sold by the Burgess Company, Inc., 119 Federal Street, Pittsburgh, Pennsylvania.

A Marlin Parts List. Members who own Marlin guns will be glad to learn that the No. 100 Component Parts Price List is now available. It may be obtained by writing The Marlin Firearms Company, New Haven, Connecticut.

The numbered component parts for each of the many Marlin Models are illustrated with the price lists beneath them. The new Marlin No. 1 4X scope sight is also shown with its parts list. Several Lyman and Marble sights that are adapted to Marlin rifles are listed along with slings, swivels, recoil pads and canvas gun cases. The last two of the twenty-nine pages illustrate some of their popular models of rifles, including the new Model-90 12-gauge Over-Under shotgun. No components for the new M-90 are shown in this parts catalog.

Microfyne Flake Lubricating Graphite lightened the weight of pull of our first M-90 Marlin Over-Under shotgun. Because we had to dismount it in order to adjust the striker for the bottom barrel, we tried a puff of dry graphite from our Dixon Jr. Graph-Air Gun in the action. The two triggers, weighed thereafter, showed $3\frac{1}{4}$ and $3\frac{1}{2}$ pounds, respectively, on our Parker trigger-tester. The factory pull-standard for these guns is between six and seven pounds. In our second sample M-90 the trigger tester registers over $9\frac{1}{2}$ pounds for the front trigger and 10 pounds plus for the back. The least we can get by a new angle is 3 pounds less.

A Redfield Mount on the Model-70 Winchester. A Redfield bridge-type hunting mount was used in mounting our 4X Lovec scope sight on the M-70 Winchester in .30-'06 caliber. The rifle and scope were sent to the Redfield Company for fitting their mount, and we were surprised

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to learn that it was necessary to alter the M-70 bolt handle to accommodate this and similar scope sights which have large $1\frac{1}{2}$ -inch eye pieces. The tube and eye-piece end of the Lovec are the same in size and proportions as those of our Hensoldt Diallytan scope. The M-70 safety, which was not altered (not yet solved by Redfield) is practically useless as it rubs the bottom of the eye piece when it is moved to "safe" position.

Screw-clamped scope rings, minus customary projections of adjusting screws makes this a very neat appearing outfit. Hardened, coin-slotted screws in the rear base block provide the windage adjustments. These same screws are also used to lock the lower, flared end of the rear scope ring to the rear base block. Internal adjustments in the scope tube itself provide for vertical corrections.

By removing one of the windage adjusting screws the scope can be swung horizontally one-half turn to free the front scope ring from its circular dovetail base. Although the scope is quickly taken off and replaced on the rifle it is advisable to check the zero by shooting after replacing the scope. We found that in removing the scope after each shot the group had a tendency to "walk" horizontally across the target. This is because individual judgment, through a sense of feel, must be relied upon to return the unmarked non-click windage screw to its former adjustment.

Very even elevation was maintained in the scope-removal test. This must be credited to good design and to the perfect seating of the front mount in its base.

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The latter is fastened to the rifle receiver hood by means of the Winchester provided screw holes. The rear base is located 4¼ inches rearward, on the receiver bridge.

Although the Redfield mount weighs but a little more than one-quarter pound, its centrally located bridge-type design gives sufficient strength and rigidity for the largest heavy hunting scopes. These scopes are placed in the lowest position possible. The Lovoc scope has its line of sight 1⅞ inches above the bore axis as mounted. The drop from the line of sight to comb and heel of the standard Model 70 stock is, respectively, 2⅞ and 3⅞ inches. Metallic sights cannot be used without first removing the scope. The Redfield Company can furnish an auxiliary sight for use on the rear base block.

The Lovoc scope, of foreign make, will be fully described in an early issue.

Ideal Hand Book No. 32 showed up after last month's issue had gone to the printers. Its predecessor, No. 31, had 160 pages and the new No. 32 has the same number of pages, and practically the same material. Reloaders who look for loads with the new series of I.M.R. powders will be disappointed. Such loads in all calibers are published only in the latest (1937) Belding & Mull Hand Book and in "Better Loads for Better Shooting" available from the Smokeless Powder Division of duPont at Wilmington, Delaware.

However, the new **Ideal Hand Book** does briefly describe and classify the new propellants and its new "Tables for Setting Ideal Powder Measure" include these new I.M.R. powders No. 4227, No. 4198, No. 3031, No. 4320 and No. 4064.



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I hope every shooter who contemplates handloading will study the **Ideal Hand Book**, either No. 31, or No. 32, and also the **B. & M. Hand Book**. These books of instruction are the most important part of any reloader's equipment, essential to success and safety. What I like about the **Ideal Hand Book** is its graphic examples, explanations and descriptions of causes and effects in the realm of loading and shooting. Many dangers and less serious problems likely to be encountered by the shooter are anticipated for him if he will but read what is written and think before he acts.

One of these dangers lies in the employment of cases which have been made weak and brittle by having been previously fired with mercuric primers. Earl Naramore has made the why and wherefores of this and the importance of using nonmercuric primers emphatically clear in the **Ideal Hand Book**. To guide the reloader safely past this possible pitfall he publishes a table of primers which are recommended because they are presumably all nonmercuric.

As a warning to the unwary this table includes, in error, mention of primers which are neither N.C. nor N.M. as listed. As published in the March Dope Bag, the Western No. 8½-G and No. 8½-B primers are both mercuric and chlorate, and a line should be drawn through this particular listing to make the **Ideal** primer table a safe guide for the uninformed.

Another, but less serious, error in the new hand book is the statement that powder cannot shipped by express. Under new regulations it can be shipped by express when properly packed, as was announced, in the February 1936 Dope Bag, more than a year ago. Even less serious is a typographical error under "Description of Powders," in which No. 4227 is listed as "No. 1427."

The Ross Periscope Range Scale is etched on a piece of flat optical glass and not on any glass which is an essential component of the lens as was implied last month in the Dope Bag. Jerry Gebby says it can be easily removed by loosening

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a small set-screw after taking out the eye piece. This is for the information of those who have bought the limited number of these fine periscopes from Du-maurer Company, Elmira, New York.

I. M. R. No. 1185 Powder. We purchased a supply of lot No. 1700 of this powder from the D.C.M. for tests with different components and rifle cartridges adapted to this type of powder. To date we have used it only in .30-'06 caliber with F.A. components. Our best loads were 42 to 42.5 grains weight, designed to duplicate the 300-meter International Match load, and 46 to 47 grains weight for a 600-yard target load. The 47-grain load grouped ten shots in 2.88 inches at 200 yards from bench rest in a heavy-barrel S-S.

Experimentally, we have tried as much as 57 grains of this powder (nearly a case full) behind the 93-grain Luger S.P. bullet using F.A. No. 70 primers. The only five shots fired with this load made a 3.08-inch group at 200 yards. We will report our results with this (lot No. 1700) powder in various calibers from time to time in the Dope Bag.

Dixon .38 Special Wadcutters. Member John L. Dixon, of Hemet, California, sent us some 150-grain wadcutter bullets of his own design. They are intended to be loaded with light powder charges for midrange revolver shooting. We tried 2.3 to 3.0 grains weight of Bullseye behind these bullets at 25 and 50 yards. The 3-grain load performed best at the shorter range. This same load was accurate at 50 yards except for several fliers in each ten-shot group. For every wild shot it was found that the bullet had tipped or keyholed slightly. These bullets were purposely tried in a revolver that does not handle any wadcutter bullet well.

The Solid Bronze Bullets for the .220 Swift were tried on game by Elmer Keith who found they were too long to handle for adequate shocking and lacerating effect, but instead they drilled small holes through such light game as jack rabbits. Consequently, the killing power was very poor, although the accuracy and ranging qualities were found to be superb.

Questions and Answers

Letters of shooting questions for this department should be mailed four to six weeks early, as circumstances often require a month's delay in reply. Impatient members are therefore asked to anticipate a month's delay by sending their questions five or six weeks early instead of writing follow-ups each week which merely serve to increase the reasonable delay of one month.



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GAUGING HANDGUN ELEVATIONS

I HAVE Colt Officers' Model, 22 Long Rifle caliber. This gun was sighted in at factory to hold at six o'clock on the official 20-yard slow-fire pistol target. Please advise where to hold on the official 25-foot slow-fire pistol target.

I have a Colt Woodsman 6½-inch barrel with Whitex sight. Can this sight be set with the Pachmayr sure-sight gauge? Please explain how to use this sight gauge. Does 5-10-15-20-25-30-35 on this sight gauge mean yards?

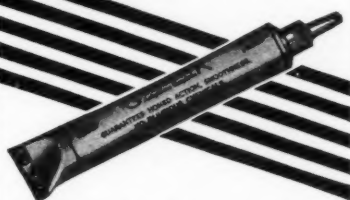
I would appreciate any information you can give me on adjusting sights from six o'clock hold to center hold using regular and high-speed ammunition.—L. F. M.

Answer: We use our .22-caliber revolvers adjusted for a 6 o'clock hold on the 8-inch bull at 50 yards and then use it the same at 20 yards on that smaller bull and also at 25 feet on the very small standard bull for that distance. Some days we shoot higher or lower than on other days and to compensate we see more or less white between the top of the sight and the bottom of the target black, even holding into the black and well into center to compensate for extreme differences at times.

In using the Pachmayr Shur-Site gauge we take a check reading with this gauge after we have had our sights properly adjusted by shooting. We either scratch a mark or remember the reading in numerals, say 20½ position or No. 25, and then we check on this at some other time when we want to be sure that the sight has not moved or when we suspect that it has been tampered with or become loosened. On the Colt front sight 1 turn of the elevation screw will change your impact about 3 inches on the target for each 10 yards of range. This will be 15 inches at 50 yards and 6 inches at 20 yards. Accordingly, you will need only a small movement like ⅛th turn or 1/10th turn of the Colt screw to make small changes on the target. You might take your Pachmayr sight gauge and turn the screw one full turn or one-half turn and see how much that equals in divisions or graduations on your sight gauge for future use.

Now if you want to find out exactly for any range you use the length of the range in inches, not yards, and divide this by your sight radius which is 9¾ inches on your Woodsman and 7.05 inches on your Officers' Model. You then use this figure and multiply it by the total movement of your sight in inches to get the amount of change on your target. For example, 1 turn of the Woodsman elevation screw and also that on the Officers' Model equals .07 inch.

GUNSLICK— the perfect lubricant!



Use Gunslick in the bore and action of any rifle—shotgun or pistol—or on the resizing die of your re-loading tool. The better results will amaze you! And that wonderful smoothness lasts. Gunslick does not evaporate—does not rub off—it is the perfect lubricant.

Ask your dealer or send 25c today for a good sized tube.

OUTERS' LABORATORIES
Omaleska, Wisconsin

THE SORENSEN SPRINGBOARD MOUNT

1. Entirely New Principle
2. Fits All Rifles and Scopes
3. Scope Removed and Replaced in Five Seconds
4. Scope Will Always Return to Zero

Many other features
WRITE TO

Andy Sorensen & Co.
WINDSOR, COLO.

DONALDSON'S

FORMULA

GRAPHITE WADS

Still the best after a year's trial by hand-loading shooters.

Developed by a veteran hand-loader of tremendous experience and methodical thoroughness. And now improved by greater ease of insertion, and new larger package.

Circular on request

R. B. SISK Iowa Park, Texas



DETACHABLE SWIVEL
State Size—¾", 1", 1½" model of Rifle. 10% to members.
REVOLVING SWIVEL CO.,
533 N. E. 78 Ave.,
Portland, Ore.

\$2.00

Per Set



Florence Murray, New Haven, winner of State Women's Championship.



Winchester Staynless, the indoor smokeless team mates of outdoor Winchester Precision EZXS.

Flash!

Santa Rosa, Calif.—Comment of shooters ordering Winchester Staynless match ammunition March 2, 1937: "Have never shot better indoor ammunition."—Harold W. Traner. "Absolutely O. K. Every shot went where I held it."—Bill Mess.



Brooklyn Poly Prep Day School Team, high score winners in the Junior Team Match. Left to right, Richard Northridge, Arthur Gnaedinger, Walter Moore, Winfield Peterson, Herbert Losee.

WINCHESTER^{TRADE MARK} STAYNLESS

17 out of 18 Highest in Connecticut's

958 Competitors! New Record

DOMINATING the great ninth annual Connecticut State Galleries Championship Matches, shooters who used Winchester Staynless .22 Long Rifle Cartridges took highest honors in all team matches except all but one individual match. Their victories gave them 17 out of the 18 Highest Place medals awarded to winning team members and individual competitors. The greatest clean-up in N. R. A. indoor rifle shooting history—hundreds of 5-man teams competing, with 958 individual competitors.

9th ANNUAL CONNECTICUT

CONNECTICUT MEN'S TEAM CHAMPIONSHIP

FIRST: Quinnipiac Rifle & Revolver Club No. 1 Team	
Jack Lacy	191
Dave Carlson	190
W. O. Breuler	189
E. J. Doyle	188
J. J. Lacy	184
Also winning over teams from outside the state, leading from New Jersey, three of whom also shot Winchester.	

CONNECTICUT WOMEN'S TEAM CHAMPIONSHIP

FIRST: Winchester Girls No. 1 Team	
Florence Murray	183
Elsie Hellwig	177
Ellena Kleinert	173
Helen Terracino	160
Gertrude Fontaine	156
A new record score for this match.	

Flash!

Berwick, Pa.
—From Karl A. Edburgh.

"This is to compliment you on your new Staynless .22 Long Rifle cartridges. I enclose a 20-shot iron sight perfect-score target made on our 50-foot range while testing my new receiver sight. We hear the Wilkes-Barre club also is using Staynless."

WINCHESTER

WINNERS WIN First Place Awards in Indoor Championship Matches

Winners in Major Events

winners of the Men's Team Championship raised the match record higher than the previous best—led the next team 12 points. The members of the Women's Team Championship also set a new match record, a smashing demonstration of what can be done with Winchester Staynless, the indoor smokeless team mates of outdoor Winchester Precision XS. And again as last year and the year before, the majority of winners shot both Winchester Ammunition and Model 52 Match Rifles.

CHAMPIONSHIP GALLERY MATCHES

CONNECTICUT JUNIOR TEAM CHAMPIONSHIP

HIGH SCORE: Brooklyn Poly Prep Day School Team No. 1

Model 52	184	Staynless	Model 52
Model 52	182	Staynless	Model 52
Model 52	177	Staynless	Model 52
Model 52	172	Staynless	Model 52
Model 52	167	Staynless	Model 52

Ineligible for the State Championship, this team won the high score medals for the match.

CONNECTICUT WOMEN'S INDIVIDUAL CHAMPIONSHIP

FIRST: Florence Murray 183 x 200 Staynless Model 52
High score medal and prize won by Alice Murdoch, member of Woodhaven, N. Y., Post 119 A. L. Rifle and Pistol Club and the Roslyn Rifle Club, score 187 x 200, made with Winchester Staynless and Model 52.

CONNECTICUT JUNIOR INDIVIDUAL CHAMPIONSHIP

FIRST: Griffith Bedworth 184 x 200 Staynless Model 52



Winchester Girls No. 1 Team, winners of the State Women's Team Championship. Back row, left to right, Florence Murray, Gertrude Fontaine, Elena Kleinert, and front, Elsie Hellwig and Helen Terracino.



Alice Murdoch, Brooklyn, N. Y., Post 119 A. L. Rifle and Pistol Club, score 187 x 200, high-over-all winner in Women's Individual Match.

WINCHESTER ARMS COMPANY
CONN., U. S. A.

Flash!

Toronto, Canada.
—From M. J. M. Watson, famous international shot. "In our annual match between Ontario and Ohio I used your Staynless .22 Long Rifle cartridges and had a most excellent 20-shot possible with 18 Xs. I am convinced that this ammunition is worth making, if it were necessary, considerable effort to get it."



Quinnipiac Rifle & Revolver Club Team No. 1, State Men's Team Championship winners. Left to right, Dave Carlson, J. J. Lacy, Jack Lacy, W. O. Breuler, E. J. Doyle. (Photo courtesy New Haven Courier Journal.)



The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results. Advertisements for The Members Exchange are accepted from members of the National Rifle Association, for their individual and personal transactions exclusively, at 7¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.00. Please give complete name, so as to

facilitate the proper issuance of money-orders. All dealers' advertisements are grouped under The Trading Post, the rate for which is 9¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.50. Groups of letters and figures are computed as one word. No box number or blind ads accepted. All advertisements must be accompanied by cash or they will be disregarded. Final closing date is the 5th of the preceding month. Please print all advertisements plainly—we cannot be responsible for errors due to illegible writing.

In describing the condition of guns advertised the following standard phrases must be used: **Perfect** means factory condition. **Excellent** means new condition, implying negligible amount of use. **Very good** means practically new condition, implying very little use, resulting in no appreciable bore wear and very few and only minor surface scratches or wear. **Good** means moderate use with some finish worn off, and only moderate bore wear with no pits and nothing worse than a little roughness in the bore. **Fair** means reasonably hard service, reasonable wear inside, and nothing worse than a few very minor pits in the bore, implying the gun is practical and sufficiently accurate for hunting purposes. **Poor** means marred appearance and pitted or badly worn bore.

THE MEMBERS EXCHANGE

For N. R. A. Members only, for their individual and personal transactions. This section provides a quick, inexpensive means for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its condition (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

FOR SALE

THE 20th CENTURY GUN. A fine 12 gauge English 5 pound ejector with a new system of taper boring and using a 2" shell now made by Remington. It develops 200 ft. more velocity than the 2 1/4" with very fine pattern and light recoil. The greatest shotgun development in recent times. We succeed Roberts & Kimball and are making the .257 special Mausers in both target and sporting models, also heavy special barrel 30-06 Match Springfields. Close chambering and expert stockmaking makes it possible to offer rifles of guaranteed performance. Catalog ready. Stamp please. Kimball Arms Company, 220 Cambridge Road, Woburn, Mass. tf

ONE 52 Heavy new with 48 and 17A, \$50.00. One B&L Drawtube with case, new, \$22.50. Krag Sporter, good, \$15.00. Luger 7.62, new, \$25.00, prewar. 52 rear sight, \$1.25. Claude Westfall, 17 West Washington St., Athens, Ohio. 4-37

THREE Winchester Trap guns. Parker Ventilated sixteen. Remington Automatic, Savage 250. Others. Stamp please. W. B. Arey, Salisbury, N. C. 4-37

PERFECT Winchester 52 Standard, 48J, 17A. Deluxe checkered grip and fore-end, Parker rod and accessories, Hartmann Trunk, \$60.00. Perfect Lyman 438, micrometer mounts, \$20.00. Complete outfit (all above) in Hartmann Trunk, \$75.00. Howard N. Landgrave, 1416 West 4th St., Marion, Indiana. 4-37

USE IDEAL EAR STOPPLES. SHOOTERS! protect your ears from the blast and roar of firearms and prevent painful and serious ear disorders. Only 25¢ per pair postpaid. **FRAY-MERSON, INC.** Formerly known as Frank Pachmayr Co., Inc., 351 S. Vermont Ave., Los Angeles, Calif. Write for literature on our Quality Shooting Necessities. 5-37

GEORGE TITHERINGTON heavy barrel 22, Hart speed action. Lyman rear, Redfield front, Scope blocks, pistol grip stock, fired 300 rounds. Excellent. \$70.00. Dr. Henry W. Wharton, 393 E. St., San Bernardino, California. 4-37

LATEST Win. 52. Fecker 4 1/4 X target. Win. A mounts. excellent. \$55.00 Money Order. W. B. Covington, Bliss, Idaho. 4-37

DALY Regent Diamond, 12, 29 1/2, 1 1/2 x 2 1/4 - 14 1/2, Full. Excellent. \$350.00. Browning Auto 16, 26 Mod., Raised Rib, Pad, Excellent. \$40.00. Springfield 30-06, P.G. Stock. Lyman 48, Very good, \$35.00. Newton 256 Peep on bolt. Fair, \$30.00. Marlin 22 Model 39. Tang peep. engraved action, fine oil finished stock. Fair, \$18.00. T. J. McCullough, Fillmore, California. 4-37

CAN YOU SHOOT as well as your great-grandfather? Try your skill on game or at skeet with a double flint Fowlingpiece. We have some fine guns by famous makers at moderate prices. Kimball Arms Company, Woburn, Mass. tf

GRAFLEX D. Schneider 3.5, 3 1/4 x 4 1/4. Cut Film and Park Adapters, Portrait Attachment. Color Filter. Case. New Condition, \$110. Stanley Duncan, Covington, Kentucky. 4-37

KRAG p.g., cheek-piece, checkered, perfect inside. Rice peep, \$16.00; Remington #12-20 pump, inside excellent, outside good, \$16.00; Colt 1917 refinished, overhauled, bore slightly rough, accurate, \$16.00; Eastern Arms 38 S&W hammerless, 5", excellent \$7.00. Want—Hi-speed Woodsman. R. O. Huddleston, Linwood, Massachusetts. 4-37

48J, excellent, \$7.50. 52 Leaf sight, \$1.00. Zeppelin Arms, Akron, Ohio. 4-37

D.C.M. SPORTER. Lyman & Fecker blocks, recoil pad, bolt handle bent, sling, very good, \$40.00. R. Thurson, 8026 Indiana Ave., Chicago, Illinois. 4-37

WIN. 42, 28" Modified, factory, \$28.00. Rem. #17 30" full, rib, factory, \$40.00. Rem. 24 22 long, factory, \$25.00. Springfield 45-70 Sporter, \$7.00. Win. 10 A to 401, 200 Cts., \$42.00. Fancy Myrtle Blank, \$7.50. Colts New Service 44-40, 7 1/2 bbl., \$12.00. S&W 357 Magnum 8 1/4, 300 Cts., factory, \$57.50. S&W 1917 45 Auto, 3 1/2 bbl., \$20.00. Colt Woodsman 6 1/2, new, \$22.00. Luger 9MM, Drum mag. 8 1/2, perfect, \$25.00. W. Hermann, 711 E. Va. St., Evansville, Indiana. 4-37

PURE Beeswax, 45 cents per lb. Postpaid. No stamps. H. E. Greenwood, Beekeeper, 1620 Delaware St., Oshkosh, Wis. 4-37

S&W M.P. 38 Spl. 6" chrome plated, excellent, \$20.00. Colt Army special 38 spl. 3" blue, rounded butt, \$17.50, excellent except blue on butt. Want—Colt or S&W .38 spl. target 6". Krag sporter, Hart flush magazine, Pacific ramp sheared gold bead, Pacific receiver sight, stock altered, pistol grip, high comb, oiled finish, Hawkins pad, sling eyelets, very good, \$30.00. Remington 14 pump, .25 cal. gold bead, Lyman rear, oiled stock, sling eyelets, recoil pad, very good, \$30.00. C. E. Schuman, 1518 So. Austin Blvd., Cicero, Illinois. 4-37

COLT N.S. Target 44 Spl., 6" and 7 1/2" bbls. Bond "C" reloading tool complete, 44 Spl. and 30-06. Keith 44 and 110 gr. G.C. 30-06 moulds, shells, extras. All excellent. \$50.00. W. J. LaFleur, 503 Hudson Ave., Albany, New York. 4-37

O'HARE long range scope, variable 20X-30X, excellent, \$20.00; Vion 40-X, like new, \$18.00; Wollensak 20-X scopes, excellent perfect, \$8.00; new, \$11.25; 25-X excellent, \$10.00; 48-J sights, like new, \$7.25; Vaver extension, 35-MIE, also 35-MIET, perfect, \$10.50; 10-X Aristocrat rifle coats, 38-40, excellent, \$5.50; Schick razor, new, \$11.00; Argus F-4.5 camera, perfect, \$5.25; Argus enlarger, perfect, \$3.25; 4000 fresh Kleen-kote 22 LR-HS, \$4.20 M. Win. 69, new \$9.20. Want 52HB, Woodsman. Add postage! Free list. James Bunney, Life Member, Peoria Shooter's Service, Peoria, Illinois. 4-37

COLT-ACE, factory grease, best offer. Enfield Sporter, French walnut, cheekpiece, Redfield 100 RW rear, \$28.00. Want—Perfect Fecker small game scope 4X-18" 1/4 cl. James B. Weeks, Bureau, Illinois. 4-37

COLT'S Officers Model 38 Special, late model, excellent, \$25.00; Colt's Army 45 DA-M-1909, excellent, \$15.00. Hensoldt Binoculars "Dialy" 6x30, guaranteed perfect condition, \$49.00. J. Duffy, 1814 G St., N. W., Washington, D. C. 4-37

BRAND NEW Heavy bbl. 52 in factory grease, \$49.50. H. L. Foster, Mt. Blanchard, Ohio. 4-37

270 H.B. Neider Springfield, #1402,233 Lyman 48, cost \$130.00, excellent. M54 Hornet, 48, new. M14, 32 Rem., perfect. Best offer, cash. Albert Freiling, 2903 N. 8th St., Phila., Pa. 4-37

MOSSBERG 22 cal. bolt action repeater, target sights; Mossberg scope, late model, perfect, \$15.00. 92 Winchester 25-20 tang, Weaver 329, good, \$22.00. Money orders. Want—Fecker Hunter, Weaver 330 Click, Hornet. Charles McComish, Shullsburg, Wisconsin. 4-37

S & W TRIPLE-LOCK 44 Spl. 6 1/2", perfect, \$35.00; Bisley 32 D.A. Colt 43 1/2, perfect, unfired, \$37.00, and others; Colt Pol. Pos. Target 22, \$18.00; 139 Arms-Man 1906-1909, \$19.50; Bisley 22-7 1/2", rebuilt, \$32.00. Others. Rare collectors pieces, books. J. C. Harvey, 971 Commonwealth Ave., Boston, Mass. 4-37

FOR SALE ONLY. 16 ga. Win. Skeet new model 12, new \$38.00. 12 ga. new model 12 Skeet, Winchester, excellent, \$40.00. H. G. Kilby, 804 Bayly Ave., Hyattsville, Md. 4-37

PERFECT K-22, \$24.00. Almost to perfect Heavy Winchester SS Hornet chambered by Niedner, Hi-wall 32-40 action, scope cheekpiece, FG stock, swivel eyes, blocks, very accurate, 200 cartridges, \$26.00. No trades. Carlton Hays, Sardin, Miss. 4-37

EXCELLENT Super Grade Winchester 54-250-3000. Shot only 10 times. Beautiful gun, \$50.00. Bert Dose, 718 So. Gevers St., San Antonio, Texas. 4-37

ENGRAVED BALLARD, Diller-Johnson relined Hornet. High comb. C. P. Stock. Inside perfect. Very accurate. \$50.00. Fecker 4XSG scope. Non-click mounts, \$22.50. 7mm Mauser action. M/93. Base 257. \$5.50. Money orders. Fred Mills, Deerfield, Mass. 4-37

EVERYDAY, all over the country, "SMOOTHIE" is proving it is different, better, smoother, faster acting. Try it now! 40¢ dealer or direct. Floyd Hartman, 212 Franklin, Buffalo, N. Y. 4-37

MAY 5th IS THE DATE!

As announced in the March Rifleman we have advanced the final closing date for all classified advertising to the 5th of the preceding month instead of the 10th as formerly.

We earnestly hope this earlier closing date will permit us to work out a more uniform system of delivering all copies of the magazine promptly to every reader on approximately the same day.

Your cooperation in helping us work out this new plan will be deeply appreciated. So please make a special effort to get all classified ads to us, for the May issue, not later than April 5th. Thanks!

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\$9.20.
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Enfield
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Albert
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MAXIMAR 6½x9, sunshade, lenses, filters, tank,
etc.; most complete, like new. Ernest Dawe, 9
Hunnewell Street, Wellesley, Massachusetts. 4-37

"NO-SLIP" RIFLE BUTT PLATES have
many advantages which no ordinary butt plate
offers. Expert riflemen use and endorse them.
Only \$1.50 postpaid. Write for literature.
Satisfaction guaranteed or money refunded.
Pray-Mershon, Inc. Formerly known as Frank
Pachmayr Co., Inc. 351 S. Vermont Ave., Los
Angeles, Calif. 5-37

KRAG SPORTER; S & W 91-22 pistol; S & W 44
Russian; Dupont Hans-trap; O'Hare Mike; Spring-
field Sleeve-sight; Lyman #285227; Stevens Diamond
pistol; 7mm bullets; gun-cabinet; B & M tool-puller
7mm. Want—Lyman Rear, Savage Bolt; Remington
45 Auto-pistol; S & W 91 Revolver. Harold Peter-
son, East Providence, R. I. 4-37

ONE 52 SPEEDLOCK, 17A, 48, excellent, \$40.00.
One 54 Hornet, Speedlock, 48, Ecker blocks, excel-
lent, \$50.00. P. A. Conyers, First Citizens Nat'l
Bank Bldg., Dyersburg, Tenn. 4-37

SEND the names and addresses of the five
best shots in your club and get the NEW ZEP-
PELIN CATALOG FREE! Zeppelin Arms,
Akron, Ohio. tf

VION Spotting Scope, 40 power, excellent, cost
\$35.00, sell first money order \$16.00. Barrel 270
for W-54, very good, shot 40 factory \$7.00. Buck
Stock, Laramie, Wyoming. 4-37

103 AMERICAN RIFLEMAN, 1925 to date, some
missing, \$20.00. Oxygen and Ether-gas, light brazing
generator, perfect, \$15.00. 180 Amp. A.C. welder or
pipe thawer, good, \$50.00. R. Sinner, Tipton, Kan-
sas. 4-37

D. H. PARKER, double, 30" Damascus, leather
case, good, \$65.00. C. B. Prater, Winfield, Kansas.
4-37

BROWNING O & U trap, excellent 30 in. full
choke, solid rib, pad. d.t., cost \$107.00, sell \$65.00.
D.C.M. Springfield, Lyman 48-17A, Star Gauge N.M.
barrel, excellent, accurate, #1273561, \$45.00. 32-40
M.L. Schuetzen, Stevens-Pope barrel, excellent. Win-
action, set trigger, vernier peep, starter, mould,
\$45.00. O. A. Franklin, 1117 Howard St., San Fran-
cisco, California. 4-37

KRAG—long barrel, remodeled stock, excellent.
\$20.00. Winchester .30-30 carbine, very good, \$12.50.
Winchester 25-35, very good, \$20.00. Carlos How-
ard, Weston, Missouri. 4-37

HEAVY Bbl. 52, Vaver extension rear, 17A front,
excellent, \$50.00. N.R.A. 54, '06, good \$30.00. W.
T. Haley, Ulysses, Kansas. 4-37

TWO WHITWORTH hex bored muzz-
loading rifles for purely match purposes. Each
has original trunk and most of accessories. Ex-
cellent material and workmanship in all parts.
Groups at 200 yards measure as low as 5x6
inches or 4x7 inches. This grouping not un-
common; targets can be produced. \$85.00 each.
American match rifles also available. E. M.
Farris, Portsmouth, Ohio. 4-37

WINCHESTER 54-06, gold bead front, Lyman
rear, inside excellent, outside good, \$35.00. Dan D.
Amsden, Pioche, Nevada. 4-37

30 LUGAR Carbine-Pistol combination, pre-war,
new, with case \$65.00; Grant-Hammond 45 Auto-
matic, rare, \$60.00; Webley-Fosberry .455, \$30.00;
32-44 Smith and Wesson Russian Target, tools and
shells, \$25.00; ditto, remodeled to .38 spec., \$20.00;
22 Remington S.S. pistol, 10 in., \$15.00. Money
back guarantee. Hans Roedder, Devon, Pennsylvania.
4-37

NEW 357 Smith & Wesson Magnum 4" Barrel,
Kings Super Police Sight, Heiser Holster, \$45.00.
John F. Moore, 3410 Sunnyside Ave., Chicago, Illi-
nois. 4-37

DAHLIAS, Nantucket, W.H.T., Barbara Red-
fern, Roycroft, Idever Warner, Jane Cowl, El-
Ray, 3 for \$1.00. All \$2.00. Gladioli 25 for
\$1.00. Picardy Free. Paul Dresser Gardens,
Attica, Indiana. 4-37

REMODELED Defender, \$15.00. See Page 32
February Rifleman. V. H. Smith, Burlington, New
Jersey. 4-37

WINCHESTER taken down, 95-06, Sheard front, re-
ceiver rear, barrel very good, rest good, \$40.00. Win-
chester 351 auto, fair, \$10.00. Winchester 90 22
W.R.F. new barrel, rest good, \$15.00. Winchester 42
410, excellent, \$30.00. Colt S.A. 41, rebled, shoots
good, holster, \$15.00. Lyman 438, plain mounts,
\$12.50. Want—95-405, good sleeping bag and pack
sack. J. H. Hibbs, Pybus Bay, Alaska. 4-37

RUSSIAN Remington drill rifles used, weight
8½ lb., not serviceable for shooting good for
drill purposes, decorators or parts. \$1.75 each,
cheaper in lots. Army double-deck steel cot-
ton, good for camps, \$3.00 each. Elmer Swath-
son, 11A 5 St., Weehawken, N. Jersey. 4-37

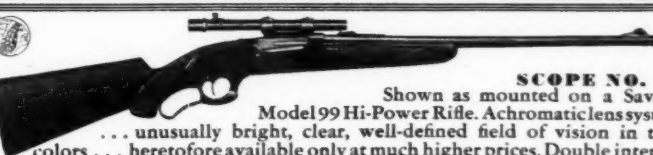
Target ACCURACY Plus STRENGTH For Hard Service

The qualities that make a
revolver suitable for target
shooting are just as desirable
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The H&R Sportsman is that kind of
a gun. The adjustable sights are
strong with large screws that stay
put. The light single action trigger
pull stands up and the simple mechanism has the
strength for hard service.

The choice of stocks permits every shooter to
have the advantage of a correct grip which is just
as important in the field as on the target range.

Send for Folder SA. Please mention the
Rifleman.

Harrington & Richardson Arms Co. Worcester, Mass.



SCOPE NO. 30

Shown as mounted on a Savage
Model 99 Hi-Power Rifle. Achromatic lens system
... unusually bright, clear, well-defined field of vision in true
colors ... heretofore available only at much higher prices. Double internal
1/2 minute click sight adjustment. Micrometer focus adjustment at eyepiece.
3 Power. A really fine scope at an extremely advantageous price ... \$11.70.



SCOPE NO. 20

For .22 cal. rifles. Internal windage and elevation
adjustments. Micrometer focus at eye-
piece. Rigid steel mounts allow use of iron
sights without removing scope. 4 Power. \$8.00



SCOPE NO. 10

For .22 cal. rifles. Positive screw (external) ad-
justments for elevation and windage. Microm-
eter focus at eyepiece. 3 Power. \$4.75. Savage
Arms Corporation, Dept. AA-38, Utica, N.Y.

SAVAGE Inexpensive SCOPES Clear Vision



TILDEN MOUNTS

OFFER SUPERIOR MECHANICAL FEATURES. You
will find a 4X Zeiss or Hensoldt in this LOW, STURDY
MOUNT is ideal for long, accurate shots with that 357
Roberts or 220 Swift. Also suitable for many other rifles
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Write Tilden Mfg. Co., 2750 No. Spoor, Denver, Colorado



THE WHITEX SIGHT

will definitely improve your accuracy
and scores, by providing superb defini-
tion for field and target
use. Let our folder explain
why. For all popular Colt
and S. & W. target arms.

R. J. TAPPEHORN
115 Crescent Court
Louisville, Ky.

\$2.50
Prepaid

WINCHESTER Single Shot, 22 Lr., Chas. Johnson
conversion, #4 half octagon 26" bbl.; blocks, 17A
and 50 Lyman, beautiful prone scope stock, pistol
grip and beavertail, Pachmayr buttplate, flush Q.D.
Swivels, S.S. trigger, new, perfect, photo 10c, \$60.00.
30-40 30" #3 octagon Winchester S.S. nickel steel
barrel only, good, \$12.00. Colt double hammer shot-
gun, 12 ga., fair, \$16.00. 38 S&W New Departure,
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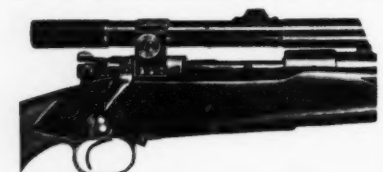
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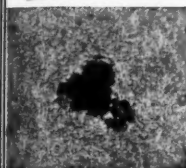
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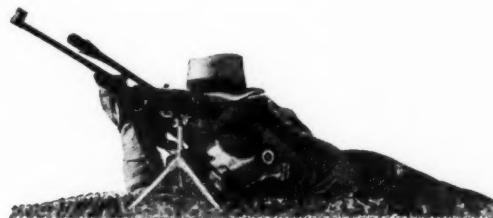
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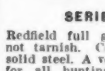
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TRADE YOUR 48J on Vaver, Lyman, or Marble-Goss Extension Sights, Telescope Sights or Spotting Scopes. We make liberal exchanges. Zeppelin Arms Company, Akron, Ohio. 4-37

TRADE—25-35 Savage M99, new stock, peep, good. .30 Remington pump M14, good. Want—250 Savage Bolt, .250 reloading tool, new H&R single action 22 W.R.F. Sportsman, 22 Colt's O.M., Woodsman, Ace. Paul Clark, Peach, Washington. 4-37

TRADE—Hensoldt Dialyt 2 3/4 with Redfield mounts. Want—Shotgun or what? Robert Taylor, Hotel Miller, Gt. Barrington, Massachusetts. 4-37

TRADE—Colt Woodsman 4 1/2 in., High Speed, excellent, Remington 241 auto 22 L.R. Lyman rear sight, two screw holes in stock, otherwise excellent, both for scope and 3/4 m. mount or Sportsman Shot Gun in same condition or make offer. E. A. Pruet, R. 3, Eldorado Springs, Mo. 4-37

WANTED TO SWAP—Springfield and/or Springfield & Enfield Sporters Lyman 48 Sight for Winchester 54 or 70 Hornet or 250 or 52 action. M. A. Cooper, Rome, Georgia. 4-37

REM. AUTO 12-28" mod. Jotsam pad, very good. Trade for Winchester 52. Ralph Click, Crowell, Texas. 4-37

"PACIFIC" Reloading Tools in trade for good used rifles or other shooting equipment. Address Exchange Department, Pacific Gun Sight Co., 373 Hayes Street, San Francisco, Calif. 1-38

TRADE—Two excellent balances, cost \$50.00, \$30.00. Old U. S., English, Confederate money. "B" eliminator. For? Melville French, De Pere, Wis. 4-37

TRADE—48J, new, for good Marble-Goss MG52 or Vaver Mie. Hazel Bowron, 20 Brook St., Brattleboro, Vermont. 4-37

TRADE—New Colt 32 Police Positive Target and \$10.00. WANT—W52 Speedlock. Daniel Morrison, Caribou, Maine. 4-37

TRADE—Good Winchester 25-35 Carbine for Enfield. Buy mould, lubricator, powder measure, scales, spotting scope. Paul Albrecht, Courtenay, No. Dak. 4-37

TRADE—Excellent 48W for Ideal Hornet reloading tool. Stephen Fajnor, 814 N. Noble St., Chicago, Illinois. 4-37

TRADE—Very good 12 Ithaca #1 double for 12 Rem. auto, latest, full, fine. R. N. Garrison, Lula, Ga. 4-37

TRADE—Howard 17 Jewel Pocket Watch, 12 size, white metal case, perfect; for excellent Colt Ace or excellent .25 Remington 14A. Frank Sawyer, Box 55, Chico, California. 4-37

WANTED

WANTED—One Springfield Sporter, plain but good. Also wanted, one Springfield Sporter, in good condition, but it need not be plain. Also wanted one Springfield .375 Magnum or something similar. J. A. L. Möller, 15 East 26th St., New York City. 4-37

WANTED—Remington 22 cal. S.S. pistol. Give description and price. John Daly, 1816 State St., Bridgeport, Conn. 4-37

WANTED—German Anti-tank rifle (13m/m) Mauser. Captain Hicks, 740 West End Ave., New York City. 4-37

WANTED—B. H. E. Parker 28" 16 or 20 Ga. 8X Targetspot, SA, Target revolvers. Best cash prices. Herman Treptow, Milltown, N. J. 4-37

WANTED—Frankford arsenal resizing press. Give condition and price. J. W. Allen, R. D. 1, Box 363, Santa Ana, Calif. 4-37

WANTED—30-06 Bullgun, accurate, describe fully, give price. Also Ideal Lubricator Sizer .311. Chas. Rankin, 4830 Cass, Detroit, Mich. 4-37

WANTED—Targetspot 8X, Sporter stock blank, 32-40 mould. Howard Barrett, Ocean Lake, Oregon. 4-37

WANTED—Reasonably priced 52 speedlock and Winchester SS. plain trigger, prefer 30-40, actions very good to excellent, barrels unimportant. Ed. Ahern, 412 Wyoming, Charleston, W. Va. 4-37

THE AMERICAN RIFLEMAN

WANTED—Springfield 30-06, as issued, by Reserve Officer, good to very good. Must be reasonable. John H. Magee, 5841 Second Blvd., Detroit, Michigan. 4-37

WANTED—Case of 30-06, Lyman 5A, or 3X. Chas. S. Hurlbutt, So. New Berlin, New York. 4-37

WANTED—High class rifle; also high class spotting scope and stand. John Grant, 2042 E. Vernon Ave., Los Angeles, California. 5-37

WANTED—Two 10 gauge Ithaca Magnums, used. J. Bryson, 7828 Champlain Ave., Chicago, Illinois. 4-37

WANTED—S&W Revolver chambered for the .44 S & W American Cartridges. Must be in good condition. Will want to examine and try out before buying. State price. Remington Arms Company, Inc., Bridgeport, Connecticut. 6-37

WANTED—40X Vion Spotting scope A-1 condition, price reasonable. John G. Osborn, Box 1834, Juneau, Alaska. 4-37

WANTED—Join the Chicago Rifle Club. Large and small bore Rifle and Pistol shooting. Club members constantly contributed to State Teams. Range located at the Austin Town Hall, Lake Street and Central Avenue, excellent transportation. Inquire of John C. Freiberg, 5141 Cornelia Ave., Chicago, Ill. Phone Palisade 5437. 4-37

WANTED—52 Winchester, Hensoldt Zeilklein, Zielyt or Noske scope, state condition and price. Glenn Wilder, Chardon, Ohio. 4-37

WANTED—Handloaders to try the best .30 caliber gas checks made. 1000 sent postpaid for \$1.10. R. W. Kampen, 557 Pearl Ave., Rockford, Illinois. 4-37

WANTED—One 20 gauge shot gun of good make, pump, double or automatic. Wanted—One Colt Officers Model, either with perfect 6" barrel, matted top, etc., or poor barrel of any length. Price must be reasonable. J. A. L. Möller, 15 East 26th St., New York City. 4-37

WANTED—16 gauge model 12 Winchester Skeet gun. 20 gauge double 28 inch barrels automatic ejectors. Both excellent. Jas. A. Taylor, Box 144, Queensboro Station, Shreveport, Louisiana. 4-37

WANTED—Speedlock WS2, factory type WS2 sporter, Weaver 329-S with S-1 or S-5 mounts, all excellent. Geo. W. Courtney, Winchester, Indiana. 4-37

WANTED—Light Small Bore full stocked long Kentucky Rifle: The Book Arms Fabricators by Gardner; reasonable. S. R. Beasley, McLeansboro, Illinois. 4-37

WANTED—Excellent M54 or 70 with 48 in. 257 or 30-06. Write best price. Millard Reese, Kingman, Arizona. 4-37

WANTED—A style T heavy barreled Springfield Rifle, in perfect or excellent condition. Walter Van Curen, Estacada, Oregon. 4-37

WANTED—Single Shot 25-35 and Winchester Musket 22 Short, good condition, reasonable. Norman C. Dutt, St. Joseph, Michigan. 4-37

WANTED—Reising Automatic, last model made, around serial #11,400, in perfect condition. Trade excellent 25-20 Remington Pump or write. Also want slide for above model Reising, cash. John Iatonna, R.D. #1, New Castle, Pa. 4-37

WANTED—Standard Win. 52 stock and action, with or without barrel. Best cash offer. Allan McLauchlan, Grand Blanc, Mich. 4-37

AMMUNITION WANTED—30-06 boatail, 22 longrifles. Trengo Rifle Club, Carl Schwanbeck, Sec'y., Collyer, Kansas. 4-37

WANTED—National Match Springfield, nickel steel receiver, barrel poor or very good, or better, give full particulars, lowest cash price. H. P. Averill, New Preston, Conn. 4-37

WANTED—One over-under double rifle, good. Also 600 Cal. double rifle, and one Webley-Fosbery 455 cal. Automatic Revolver, both any condition. Frank R. Irving, 175 Prospect Street, Biddeford, Maine. 4-37

WANTED—Short Mauser action or rifle with this action. Good or better. Cash or trade 34" Fecker, 1/4 minutes. Excellent. F. A. Frost, 3 East McIntyre Avenue, Pittsburgh, Pa. 4-37

WANTED—Super Ikomat A f3.5 or Leica, Remington Sportsman skeet 16 gauge, B&L Prismatic, E. W. Burroughs, M.D., 701 W. State St., Trenton, N. J. 4-37

WANTED—35 Rem. carbine 14R, perfect. D. E. Harradon, R. D., Auburn, Maine. 4-37

WANTED—Excellent oil finished 23D Hornet with scope. Give description and price. Russell H. Anderson, 42 Pondfield Road, Bronxville, N. Y. 4-37

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WANTED FOR CASH—Stevens, Model ten, 8 in., 36 oz. blue, 22 L.R. or Hi-Standard, S.S., new improved model, 38 oz., target pistols. Ideal tool, No. 3, 25-20-R., D. adj., molds, numbers, .311299—H. Pt., 456122-H. Pt.—Gould, or any small caliber, hollow point mold, all must be very good. Write of- fers. Kenneth John Herrick, 237 West 26th St., Erie, Penna. 4-37

WANTED—Will pay cash for used bench lathe, must be bargain. Bob Church, Cresco, Iowa. 4-37



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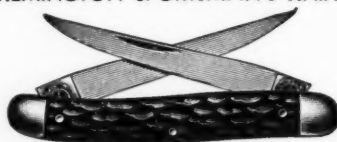


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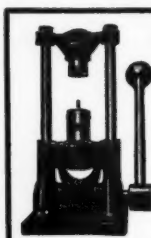
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WANTED—Heavy S.S. Double Set Pistol Grip Winchester. Condition of barrel immaterial. R. B. Sisk, Iowa Park, Texas. 4-37

WANTED—Fecker or Lyman Scope, click mounts, 4 to 6 power. Describe and price. Wilson Rice, Frankfort, Kentucky. 4-37

WANTED—High-grade 12 ga. trap gun, Parker preferred, in exchange B&L 6x30 binoculars, excellent, case with shoulder straps included. C. J. Rodman, Alliance, Ohio. 4-37

WANTED—Combination two barrel over-under shotgun and rifle. Flat Top Bisley 22 Col., 45 frame. Factory original. State lowest price. One over-under double shotgun. Frank R. Irving, 175 Prospect Street, Biddeford, Maine. 4-37

WANTED—Leica G-f-2, Summar, state condition and lowest cash price. R. E. Soules, 607 Third St., Marietta, Ohio. 4-37

WANTED—Ideal sizer and lubricator; 45-70 bullet mold. R. G. Lutz, Battle Road, Princeton, N. J. 4-37

WANTED—Ranger Model 50. Very good or better. Kenneth D. Dodds, 81 Georgetown Ave., Bellevue, Penna. 4-37

WANTED—Slow 52 barrel and action. Springfield Sporter. Enfield barrel and action. Spotting Scope. F. C. Culler, Alliance, Ohio. 4-37

THE TRADING POST

Bargain lists and announcements by the makers and distributors of everything used by active outdoorsmen and sportsmen collectors. Advertisers in this section are required to furnish at least one bank and two business references. We believe they are all straight shooters and thoroughly reputable, but we request an immediate report of any unsatisfactory dealings.

FIREARMS GENERAL

NEW MOSSBERG RIFLES for right or left handed shooters. 46A, \$12.47; L46A-LS, \$15.71; 43, \$17.96; L43, \$22.28. Zeppelin Arms, Akron, Ohio. 4-37

MODEL 94 Winchester Carabines Cal. 30-30 and 32 Special Brand, new, \$28.50; 22 High power Savage, rifle like new, \$38.44 S. & W. Outdoorsman like new, \$32.50; 44 Special Colt. New Service, 5 inch barrel, brand new, \$21.50; 44 Special S.W. 6 inch barrel, like new, \$25.00; 44 Webley Revolver Cartridges, \$1.50 per 100; 10 Ga Shot Gun Shell #3 Winchester & Remington, \$3.00 per 100; 35 Calibre Winchester Automatic Rifle Model 1905, good condition, \$20.00. Send dime for catalog of used, modern, and antique firearms. Public Sport and Loan Company, 13 South 16th St., Philadelphia, Pennsylvania. 4-37

AN OPPORTUNITY to secure a high-grade English Shot gun or rifle at less than cost. S. A. Leonard, expert gun maker, (formerly with John Purdey & Sons, London) now with Fiala Outfits, Inc., 10 Warren Street, New York City has the entire stock of W. & C. Scott's guns, in this country, for disposal. All New Guns—Write for list.

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FREE PRICE LISTS OF NEW AND USED GUNS. Following used bargains: B&L Draw Tube 20X, perfect. \$22.50; Remington #11 Automatic 12-30 full, good, \$22.50; Winchester 12 Skeet fore-end, solid rib, recoil pad, Cutts Compensator with three tubes, mechanically perfect, finish good, \$43.50; Colt Official Police 38/6, fair, \$14.75. John J. Tobler, 507 32nd Street, Union City, N. J. 4-37

WINCHESTER CARBINES, 30-30s at \$20.00; 38-40s, \$15.00; 32-20s, \$12.00. Lever 16 double, \$15.00. Remington 20 pumps, \$17.50. Winchester 16, 20 pumps, \$20.00. Colt 38 Official Police, \$17.50. 45 S&W 1917, \$16.50. 22 Police Positive, \$13.50. Bisleys, \$13.50. EE Binoculars, \$17.50. Moto-Tools, accessories, to trade. New Guns: 16 Remington Automatics, \$35.00; Aces, \$35.00; Winchester 63s, \$26.00; Speedmasters, \$25.00. Univex Cine-Camera, \$6.50. Eastman Cine-Kodak Eight, \$16.00. Oran Delaney, Greenville, Texas. 4-37

REVOLVER SPECIAL—Just received from England, American revolvers in British .455 caliber. Cartridges made by all American companies. S & W triple-locks, \$19.50 and \$29.50. Colt N. S. and Colt D. A. Frontiers, \$14.50 and \$19.50 according to condition. Remington 44 S. A. Frontiers, \$12.00. Colt S. A. 45 7 1/2", \$12.50. Colt D. A. 38, \$13.50. S & W Russian D. A. in case, fine, \$25.00. Same in fair condition, without case, \$14.50. Many English service revolvers, Webley and others at bargain prices. Kimball Arms Company, Woburn, Mass. 4-37

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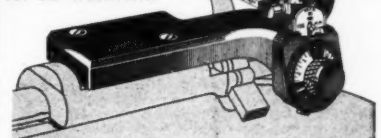
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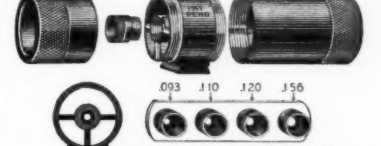


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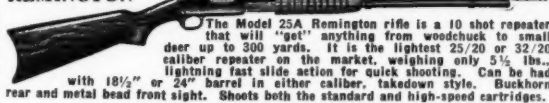
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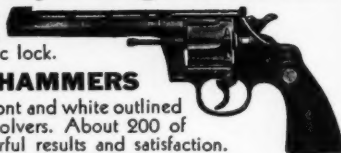
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4-37

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LONG LIVE the Shooting Game—



Next month the people of the British Empire will celebrate the coronation of a new monarch. As part of this celebration a fifteen man rifle team will represent the United States in a match at historic Bisley for the prized Pershing Trophy. The sending of this Small Bore Team to Bisley is but one of the progressive steps your Association has been able to take as a result of recent gains in response to our appeal for new members.

Since the goal of one hundred thousand N. R. A. members was first suggested we have already seen another increase in the size of the American Rifleman; the introduction of a new "personal-service division" for handgun shooters; the revampment of the N. R. A. Home Range Matches to keep pace with changing conditions.

We have also seen the passage by the Senate of the Copeland Bill (S-3), the firearms measure that hits the crook, but does not disturb the honest gun-owner. We have also witnessed the withdrawal in state legislatures of numerous drastic anti-pistol proposals. We are now assured that adequate funds will be appropriated for conducting the National Rifle and Pistol Matches at Camp Perry this year.

The progress already made reflects the membership gains realized to date. Let's keep going—and growing. There are two ways in which you can help. Continue your own support. Sign up a new member whenever you can, use the application on the opposite page.

NATIONAL RIFLE ASSOCIATION

Now Even SUPER-MATCH Accuracy Has Been Improved!



Don't forget that Western XPERT .22 Long Rifle is a replica of 1937 SUPER-MATCH except in the hand operations incidental to the loading and testing of match ammunition. XPERT sells for the same price as ordinary .22's. You can practice with XPERT, then change to SUPER-MATCH for serious shooting without changing your sight settings!

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